

**Office Of River Protection**  
**Tri-Party Agreement Milestone Review**  
**Meeting Minutes**  
**February 15, 2007**

Approval: See next page  
J. Hedges (H0-57)  
*Ecology IAMIT Representative, Chairperson*

Date: 3/27/07

Approval: Woody Russell  
J. R. Eschenberg/Z. Smith (H6-60)  
*DOE/IAMIT Representative*

Date: 3/16/07

Approval: N. Ceto  
N. Ceto (B1-46)  
*EPA IAMIT Representative*

Date: 3/15/07

Minutes Prepared by:

Sonya Moore  
S.L. Moore (H8-40)  
*Fluor Hanford, Inc.*

Date: 3-28-07

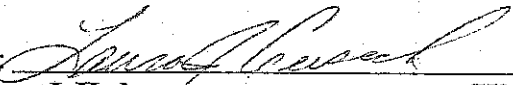
Abdul, Wahed*	ORP	H6-60	Long, J.D.*	ORP	H6-60
Bilson, H.E.	FH	H8-20	Luke, J.J.*	CH2M	H6-03
Bohnee, G.	NPT		Nicoll, B.L.*	ORP	H6-60
Braswell, S.M.*	ORP	H6-60	Niles, K.	OOE	
Caggiano, J.A.*	Ecology	H0-57	Noland, T.W.*	FH	H8-12
Ceto, N.*	EPA	B1-46	Noyes, D.L.*	ORP	H6-60
Chalk, S.	RL	A7-75	Olinger, S.J.*	ORP	H6-60
Cimon, S.	ODE		Piippo, R.*	FH	H8-12
Clark, D.L.*	ORP	H6-60	Quintero, R.A.*	ORP	H6-60
Cusack, L.J.*	Ecology	H0-57	Russell, R.W.*	ORP	H6-60
Diediker, J.A.*	ORP	H6-60	Sanders, S.W.*	ORP	H6-60
Engelmann, R.H.*	FH	H8-12	Skinmarland, R.R.	Ecology	H0-57
Eschenberg, J.R.*	ORP	H6-60	Smith, T.Z.*	ORP	H6-60
Fort, L.*	Ecology	H0-57	Triplett, M.B.*	PNNL	K6-52
Fredenburg, E.A.*	Ecology	H0-57	Uziemblo, N.H.*	Ecology	H0-57
Furlong, P.T.*	ORP	H6-60	Vance, J.G.	FH	H8-12
Harp, B.J.*	ORP	H6-60	Voogd, J.A.*	CH2M	H6-03
Harris, S.	CTUIR		Wade, K.G.*	ORP	H6-60
Hedges, J.*	Ecology	H0-57	Whalen, C.L.*	Ecology	H0-57
Henry, D.	OOE		Wiegman, S.A.*	ORP	H6-60
Horst, L.	OOE		Wolf, A.	CTUIR	
Huffman, L.A.*	ORP	H6-60	Administrative Record		H6-08
Jackson, D.E.	RL	A4-52			
Jaraysi, M.N.*	CH2M	H6-03			
Jim, R.	Yakama				
Lober, R.W.*	ORP	H6-60			
Louie, C.S.*	ORP	H6-60			

\* Attendees

**RECEIVED**  
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**EDMC**

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Approval:   
for **J. Hedges** (H0-57)  
*Ecology IAMIT Representative, Chairperson*

Date: 3/27/07

Approval: \_\_\_\_\_  
**J. R. Eschenberg/Z. Smith** (H6-60)  
*DOE IAMIT Representative*

Date: \_\_\_\_\_

Approval: \_\_\_\_\_  
**N. Ceto** (B1-46)  
*EPA IAMIT Representative*

Date: \_\_\_\_\_

Minutes Prepared by:

\_\_\_\_\_  
**S.L. Moore** (H8-40)  
*Fluor Hanford, Inc.*

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General Discussion

ORP distributed their 1<sup>st</sup> Quarter 2007 TPA milestone review handout. The information in these minutes reflects discussion based on that handout.

Ecology asked about the status of the critical path and if there were any scheduling issues. ORP explained they are holding discussions on these issues in another format.

At the close of FY 2006, ORP had completed 13 milestones and missed four: M-045-55-T04, M-062-08, M-045-00B, and M-045-00C. Also, M-045-05A and M-045-05-T05 are at risk. (See pages 5-7 of handout.)

Ecology asked if the status of M-045-05-T05 should be at risk or unrecoverable. ORP agreed it was unrecoverable. ORP stated that the way the target dates are set up, they will always be late.

ORP noted that CH2M Hill's Program-to-Date (PTD) performance for FY 2006 was good and that a meeting to go over the baseline will be set up. The PTD is from FY 2004 forward. Ecology asked what this baseline was against, and ORP responded that it was the current baseline for FY 2007. (See pages 18-20 of handout.)

**M-045, -050, 060, Single-Shell Tank Corrective Action**

M-045-55 – ORP stated they were making very good progress. ORP has completed work in B farm, are half way through BX and will start BY shortly. U farm has been modified to address 18 holes in context of the goals of Phase 1.

Ecology pointed out that page 10 of the handout shows 'Change Pending' but it should also be marked as 'Missed.' Ecology also noted that they returned the change package to ORP with comments and are waiting for a response. ORP is working internally to put together a proposal. Ecology asked about other milestones coming due and noted that if ORP waits to address them they will also be missed. ORP's understanding was that the regulators wanted to talk about all the milestones together. Ecology indicates they are willing to address milestones individually.

All agreed better information is needed for the RI/FS process. Ecology is asking ORP to continue to do soil investigation. ORP understood Ecology's strategy was for ORP to submit individual change packages. Ecology stated they believe ORP can move ahead on certain change packages. ORP stated that the process of sequencing documents can not be resolved without all of the milestone changes. ORP stated they are not working on

changing this milestone until they understand which milestones and changes are part of the 'big picture' as determined by Ecology.

In the past, ORP attempted to tie C Farm into corrective actions and ran into problems. Ecology stated ORP needs to discuss getting things as aligned as possible and discuss issues that are global. ORP will clarify M-045-55; what the issue is and how to move ahead on it.

M-045-56 – intermediate design will commence mid-July and a meeting is scheduled with Ecology.

### **SST Retrieval and Closure Program**

M-045-00B was missed. ORP submitted a report on High Resolution Resistivity (HRR) technology. As a result of a meeting with Ecology, ORP deferred additional testing of HRR at C farm and is focusing on retrieval. ORP will continue to use HRR to monitor retrievals and has agreed to use HRR on eight other tanks.

Ecology questioned that if ORP stated they will defer testing of HRR in C Farm, why are they still installing HRR. ORP stated that some leak detection methods have uncertainty and need to install HRR because it is better than the alternative. There were seven tanks that ORP was going to use modified sluicing on, but the last four tanks in C Farm are leak prone and a Tank Waste Retrieval Work Plan (TWRWP) has not been approved. There is an issue whether or not to use HRR on these tanks. Part of the commitment is to use minimal water with the leaking tanks, however dry retrieval methods are more costly.

Significant Accomplishments – ORP is 63% complete on retrieval of C-108 and is working to accelerate start of retrieval of C-109 by August 2007.

Planned Activities. – ORP will conduct another Retrieval Team meeting and will be sending Retrieval Data Reports to Ecology for C-204 and C-103. ORP is expecting to resume retrieval on S-112 to retrieve 3,000-4,000 gallons left in the tank.

Issues – The Mobile Retrieval System (MRS) TWRWP (Revision 2) was submitted to Ecology and ORP is working on comment resolution. The Ecology letter stated ORP has 30 days to respond with comment resolution, but ORP believes they should have 45. ORP will be sending a letter to Ecology next week requesting the additional time. ORP stated the comments received in January raised new issues, but they are not sure if it was due to differences between Revision 2 and Revision 1. Ecology agreed to the time line of 45 days; therefore ORP does not need to send a letter.

ORP will set up a meeting with Ecology to discuss making a change to the MRS TWRWP to allow use of other technologies in addition to MRS. ORP is looking at enhancements to MRS technology and the tanks are not projected to be retrieved for a number of years (C-101, 105, 110, and 111).



Ecology questioned the dates in the Schedule Forecasts (page 57) which are not TPA dates and doesn't even reflect the work ongoing. ORP stated they needed to establish a strategy based on direction from HQ. ORP acknowledges that when discussions between ORP and Ecology regarding the schedule are completed, the baseline will need to be adjusted again. ORP noted that a baseline is a target to measure performance against. EPA questioned how many baselines ORP is working to and they answered only one.

Ecology asked, once there is agreement on a schedule, how long will it take to change the baseline. ORP stated it would probably take less than a year. An Ecology staff visit in January to review C-103 retrieval satisfied Ecology's request for information except for groundwater. ORP noted that even though they provide Ecology with quarterly reports on groundwater monitoring, they realized the reports did not provide Ecology with the data they wanted. ORP stated that from now on all reports will provide data on C Farm. Ecology noted that the quarterly reports are about six months behind.

#### Issues –

M-45-02M: The Biennial SST Retrieval Sequence and DST Space Evaluation Document, submitted by DOE to Ecology in March and again in December 2006, indicates DOE currently has no plans to build additional DSTs. Ecology stated the document lacks sufficient information for Ecology to concur that additional DSTs are not needed. Ecology also noted that the SST retrieval sequence document was based on a single Hanford Tank Waste Operations Simulator (HTWOS) modeling run with mission assumptions that Ecology did not necessarily support, and expressed frustration that DOE did not include an Ecology case modeling run with alternate assumptions. Ecology expressed similar frustration regarding their request for HTWOS modeling support to further develop alternative retrieval scenarios presented at the Manning meeting in October 2006.

There was extensive discussion about what additional information Ecology needs, when and how the information had been requested in the past, how DOE has responded, and how relevant the Manning team proposal is to M-45-02M deliverable. The parties acknowledged the requests for additional information and modeling support may not have been clearly communicated. At the conclusion of the discussion, the parties agreed to meet immediately following the quarterly meeting to better define Ecology information needs and how DOE will respond.

#### **Interim Stabilization Consent Decree**

Retrieval of S-102 is at about 69%; completion of this will close M-045-05A.

#### **M-048-00, DST Integrity Assessment Program**

For the two remaining milestones (M-048-15 and M-048-00), ORP has completed re-examination of the first row of all DSTs. Due to conversation with HAB and Ecology staff, the Independent Qualified Registered Professional Engineer report was clarified.

## **M-090-00, Complete Acquisition of New Facilities, Modifications of Existing Facilities, and/or Modifications of Planned Facilities**

M-090-10 – The parties discussed completion of the Immobilized Low Activity Waste Disposal Facility and revision of the permit to move to a care and custody mode. Facility testing was completed in October 2006; therefore, ORP changed the status to 'Closed.' Ecology is still of a position to request the risk budget tool per the permit; however, ORP would prefer to wait until after the EIS is completed. Ecology agreed to wait until after completion of the final EIS, but no later than July 2010. Ecology asked if ORP would be ready for delivery shortly after the final was submitted. ORP stated the tool should be delivered as soon as possible after final EIS. ORP is drafting a revised permit condition to address the care and custody mode.

Planned Actions – Planting of sagebrush has started. ORP stated there was significant rain and wind over the winter and some wind erosion was noted on the NE corner of the facility. Other surveys were completed to be sure there were no other problems.

## **M-062-08, Submittal of Hanford Tank Waste Supplement Treatment Technologies Report**

Significant Accomplishments – Preparation for the full-scale dryer testing was completed and the test will be performed in May. Ecology noted that HAB has a better perception regarding this activity. A Project Improvement Plan draft is being revised based on comments from EM-20; this will take about two months to review.

## **Hanford Waste Treatment and Immobilization Plant (WTP) Project**

ORP stated that a ceiling budget of over \$12 Billion was approved for this project's baseline. ORP stated they will not have a negotiated contract until mid-summer, but there will be milestone impacts and the regulators should be involved. Ecology asked if ORP would be ready to discuss the milestones by March and ORP acknowledged they could start incremental negotiations. ORP is reluctant to commit to milestones with 0 volume/0 radioactivity limits until it has 2-3 years operating experience. ORP stated the contract in place was not a very effective vehicle. Ecology noted that once the negotiations start, there will be a sense of urgency.

## **Pretreatment Facility**

Engineering work continues on resequencing the work that will be done on each facility in order to allow the LAW facility to be completed first. BNI has been able to release engineering drawings for reinforcing steel; also completed the design on the 56' slab and the structural steel up through the 77' level. Ecology asked how often ORP was meeting on the External Flow-sheet Review Team (EFRT) issues and ORP responded weekly.

Conducting Multiple Overblow (MOB) testing to determine impacts to vessel internal equipment. During evaluation of hydrogen accumulation it was found that a 50% stroke of the Pulse Jet Mixers (PJM) would not mix the waste in the PJM sufficiently to release the hydrogen. Subsequent testing showed that an 80% stroke would be required to achieve required mixing. When the 80% stroke is used the possibility of MOB becomes real. Since the vessels must be able to withstand a MOB, testing has been initiated to determine how strong the mounting of the internal equipment must be to withstand the MOB. Ecology asked if the MOB testing was only necessary for new vessels, but ORP stated they were doing the tests on all vessels based on the significant overblow definition to prove conservatism on the testing. Ecology wants to be sure the tests ORP is conducting have to be run. ORP also stated that there are some issues in the Hydrogen in Piping and Ancillary Vessels and they will have to modify the vessels to address these issues.

Action: Ecology's June 28, 2006 letter directed ORP and BNI to either increase vessel wear plate thickness or conduct erosion testing. ORP will provide an answer to Ecology by 2-28-07 as to which of the two options would be selected.

ORP let a contract for an engineering scale test facility to be fabricated in New Mexico and shipped to Hanford which will affirm that the EFRT fix worked. This should restore the capability to the pretreatment facility and is an opportunity to increase plant throughput.

### **Low Activity Waste (LAW) Facility**

Ecology brought up the early LAW studies in a CH2M Hill report last summer and asked if anything had been done since. ORP explained that was the last time anything had been done but they received direction just two days ago to perform a broader study

ORP explained they are already sequencing priorities to ensure the LAW is built first and money has been set aside for early LAW operation. ORP noted that there will need to be some DST and tank farms upgrades. The Categorical Exclusion process does not relate to this project and is not covered in the EIS. Ecology noted that when the facility starts taking form they want to be involved because of concerns they have.

Ecology stated they do not want the High Level Waste portion to be delayed at all because of the LAW. Also the Tc<sup>99</sup> issues need to be addressed. Ecology asked which tanks ORP is planning to send to the LAW. ORP stated the differences in iodine retention in the glass will determine this and they are discussing performing testing.

Action: ORP will provide Ecology with information on what testing will be performed on iodine retention in glass.

Ecology expressed concern over the lack of DOE oversight on construction activities by BNI. ORP stated the oversight was actually increasing. EPA stated the issue is actually independence of oversight. ORP explained that what they are doing at Hanford is similar to how the Nuclear Regulatory Commission works. EPA stated that if there were adequate oversight by sufficient resources then another set of 'checkers' was not necessary.

Office of River Protection

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Tri-Party Agreement  
Quarterly Milestone Review Meeting  
February 15, 2007



U.S. Department of Energy  
U.S. Environmental Protection Agency  
Washington State Department of Ecology

1<sup>ST</sup> Quarter of FY 2007

## Agenda

Office of River Protection  
Tri-Party Agreement  
Quarterly Milestone Review Meeting  
Ecology Offices  
February 15, 2007  
9:00 a.m. – 12:00 p.m.

Page	Topic	Leads	Time
3 13	<ul style="list-style-type: none"> <li>TPA Milestone Statistics</li> <li>FY 2006 ORP TPA Cost &amp; Schedule Performance (CHG)</li> </ul>	Woody Russell / Diane Clark/ Suzanne Dahl / Jeff Lyon	9:00
51	M-45, -50, -60 Single-Shell Tank Corrective Action	Bob Lober / Joe Caggiano	9:10
53	M-45-00, Complete Closure of All Single-Shell Tank Farms	Roger Quintero / Jeff Lyon	9:30
62	Interim Stabilization Consent Decree	John Long / Nancy Uziemblo	10:00
63	M-23-00, Tank Integrity and Monitoring	John Long / Jeff Lyon	10:10
64	In Tank Characterization and Summary	John Long / Michael Barnes	10:20
66	M-47-00, Tank Waste Treatment, Storage and Disposal Facilities	Diane Clark / Les Fort	10:30
68	M-48-00, DST Integrity Assessment Program	Cathy Louie / Les Fort	10:40
70	M-90-00, Complete Acquisition of Facilities for Interim Storage of IHLW and Storage/ Disposal of ILAW and M-20, Part B Permits	Cathy Louie / Bud Derrick	10:50
	<b>BREAK</b>		
72	BNI Cost & Schedule Performance and M-62-00, Complete Pretreatment Processing and Vitrification of Tank Wastes	Bruce Nicoll / Pete Furlong / Wahed Abdul / Suzanne Dahl	11:00
81	M-62-08 Bulk Vitrification/Supplemental Technologies	Ben Harp/Suzanne Dahl	11:20

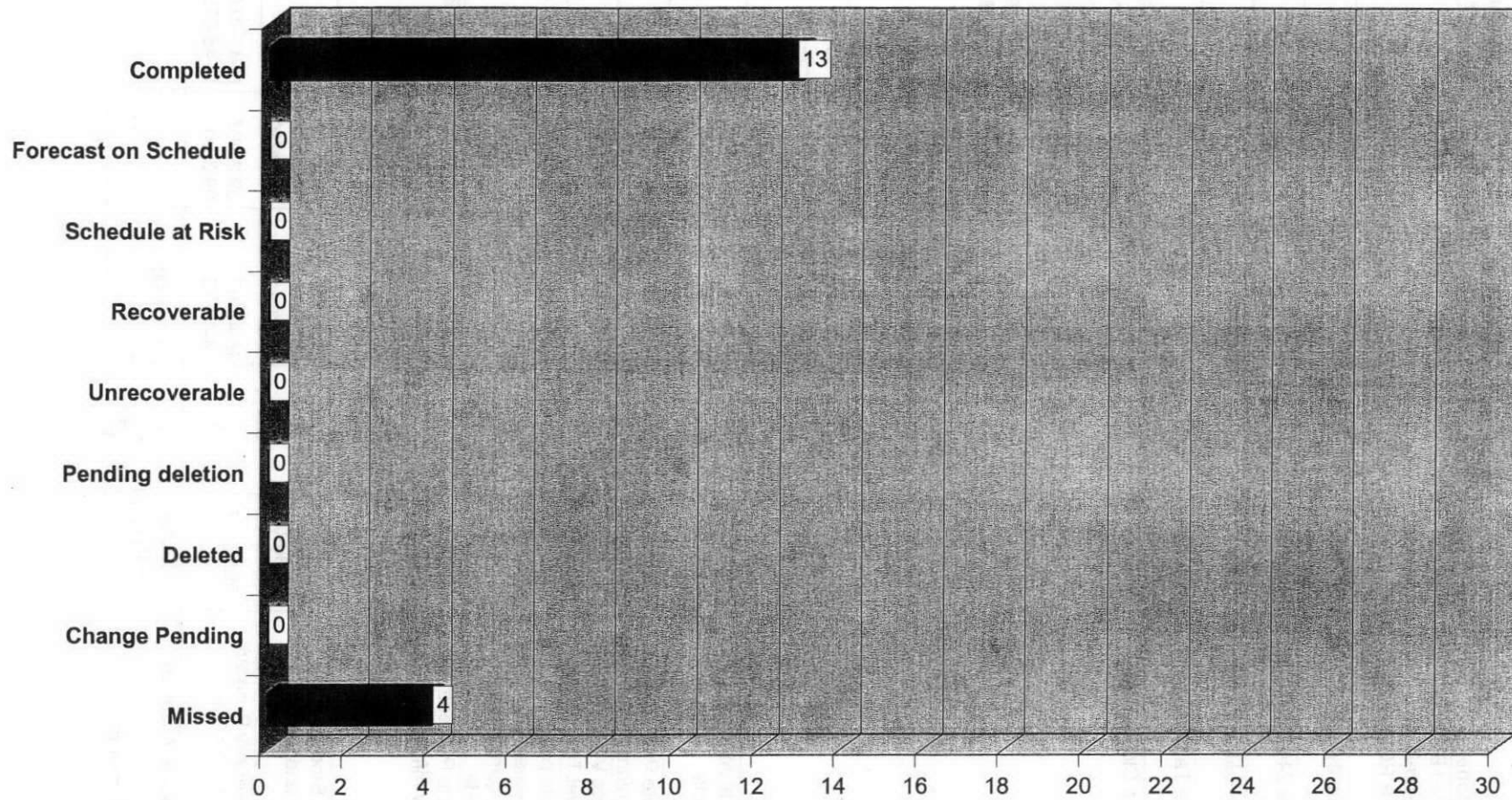
**TPA Milestone Statistics**

(Including target milestones)

Milestone	Due Date	Total Active as of 03/31/06	Milestone Number	Due Date	Milestone Number	Due Date
<b>M-20-00</b> , Submit Part B Permit Application on Closure/Post Closure Plans for all RCRA TSD Units	12/31/08 (M-20-00)	0				
<b>M-23-25</b> , Tank Integrity and Monitoring	03/31/05 (M-23-25)	0				
<b>M-23-27</b> , Complete 244-CR Liquid Level Assessment	12/30/04	0				
<b>M-42-00</b> , Provide Additional DST Capacity	TBD	1	M-42-00	TBD		
<b>M-43-00</b> , Complete Tank Farm Upgrades	06/30/05 (M-43-00)	0				
<b>M-45-00</b> , Complete Closure of all SST Farms	09/30/24 (M-45-00)	31	M-45-00	09/30/24	M-45-05-T12	09/30/14
			M-45-00B	09/30/06	M-45-05-T13	09/30/15
			M-45-00C	09/30/06	M-45-05-T14	09/30/16
			M-45-00D	01/31/08	M-45-05-T15	09/30/17
			M-45-02	TBD	M-45-06	09/30/24
			M-45-02N	03/01/08	M-45-06-T03	03/31/12
			M-45-02O	03/01/10	M-45-06-T04	03/31/14
			M-45-05	09/30/18	M-45-13	12/31/07
			M-45-05A	03/31/07	M-45-15	12/31/07
			M-45-05-T05	09/30/07	M-45-55	01/31/07
			M-45-05-T06	09/30/08	M-45-56	TBD
			M-45-05-T07	09/30/09	M-45-58	06/30/07
			M-45-05-T08	09/30/10	M-45-59	TBD
			M-45-05-T09	09/30/11	M-45-60	09/30/07
			M-45-05-T10	09/30/12		
			M-45-05-T11	09/30/13		
<b>M-47-00</b> , Complete All Work for Phase 1 Operations	02/28/18 (M-47-00)	5	M-47-00	02/28/18	M-47-04	03/31/09
			M-47-02	03/31/09	M-47-06	06/30/10
			M-47-03A	03/31/09		
<b>M-50-00</b> , Complete Pretreatment Processing of Hanford Tank Waste	12/31/28 (M-50-00)	1	M-50-00	12/31/28		
<b>M-51-00</b> , Complete Vitrification of Hanford High Level Tank Waste	12/31/28 (M-51-00)	1	M-51-00	12/31/28		
<b>M-61-00*</b> (alternate path), Complete Pretreatment & Immobilization of Hanford Low Activity Tank Waste	12/31/28 (M-61-00)	1	M-61-00	12/31/28		
<b>M-62-00</b> , Complete Pretreatment Processing and Vitrification of Tank Wastes	12/31/28 (M-62-00)	9	M-62-00	12/31/28	M-62-07B	12/31/07
			M-62-00A	02/28/18	M-62-08	06/30/06
			M-62-01M	07/31/06	M-62-09	02/28/09
			M-62-03	12/31/06	M-62-10	01/31/11
					M-62-11	06/30/07
<b>M-90-00</b> , Interim Storage and Disposal of LAW and Interim Storage of HLW	TBD (M-90-00)	3	M-90-00	TBD		
			M-90-10	08/31/08		
			M-90-11	08/31/10		
<b>M-48-00</b> , DST Integrity Program, Submit Results of 4 DSTs not Previously Examined	09/30/07	4	M-48-00	09/30/07	M-48-07A	06/30/06
			M-48-15	09/30/07	M-48-07B	06/30/06
<b>Interim Stabilization Consent Decree</b>	09/30/04 (D-001-00)	1	D-001-00			
<b>Total Active Milestones:</b>		<b>57</b>				



## FY 2006 MILESTONE PERFORMANCE





## Fiscal Year 2006 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R26	DOE Shall, On A Quarterly Basis, Submit To Ecology A Written Report Documenting Tank Stabilization Activities That Occurred During The Period Covered By The Report. This Written Report Shall Provide The Status Of Progress Made During The Reporting Period.	10/31/05	10/31/05								
M-048-07A-A	Complete construction of the AZ-301 condensate return system and remove the AZ-151 catch tank system from service by October 31, 2005. This scheduled deliverable is a subset of M-48-07A, and thus labeled as M-48-07A-A.	10/31/05	10/31/05								
M-046-21	Complete Implementation Of Double Shell Tank Space Optimization Study Recommendations (Tank Space Options Report Document No. RPP-7702, April 12, 2001).	12/31/05	12/15/05								
M-062-01L	Submit Semi-Annual Project Compliance Report	01/31/06	01/31/06								
M-045-02M	Submit biennial update to SST retrieval sequence document (agreement Appendix I. Section 2.1.2), double shell tank space evaluation document and Ecology concurrence of additional tank acquisition.	3/1/06	3/13/06								
M-048-07A-B	Completion of construction for the 241-AP-106A central pump pit upgrade (remove existing equipment, evaluate pit integrity, and replace pit coating, if necessary. This scheduled deliverable is a subset of M-48-	3/31/06	3/30/06								

## Fiscal Year 2006 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
	07A, and thus labeled as M-48-07A-B										
M-048-14	Submit Written Integrity Report For The Double-Shell Tank System	3/31/06	3/31/06								
M-047-05A	Complete startup and turnover activities for waste retrieval and mobilization systems for selected initial low-activity waste feed tank (other than AZ-101 or AZ-102).	4/30/06	02/2/05								
M-045-55-T04	Submit To Ecology For Review And Comment A Draft Field Investigation Report Combining The Results Of Field Investigations And Analysis For WMAs A-AX, C & U Pursuant To The Site-Specific SST WMA Phase 1 RFI/CMS Work Plan Addenda For WMA A-AX, C And U. As part of the Phase 2 Vadose Zone project renegotiations, being developed, this target milestone scope will be included in M-45-55 Phase 1 Rollup documentation due in 1/07. Project continues to complete field characterization activities per approved work plan, but will defer stand alone paper study for additional characterization during phase 1.	04/30/06						X			X
M-048-07A	Complete construction of the AZ-301 condensate return system and pit upgrades. This includes: 1) Complete construction of the AZ-301 condensate return system and remove the AZ-151 catch tank system from service [see M 45-07A-A]; 2) Complete construction of AP-106A Central Pump upgrade [M 48-07A-B]; and 3) complete	06/30/06	06/28/06								

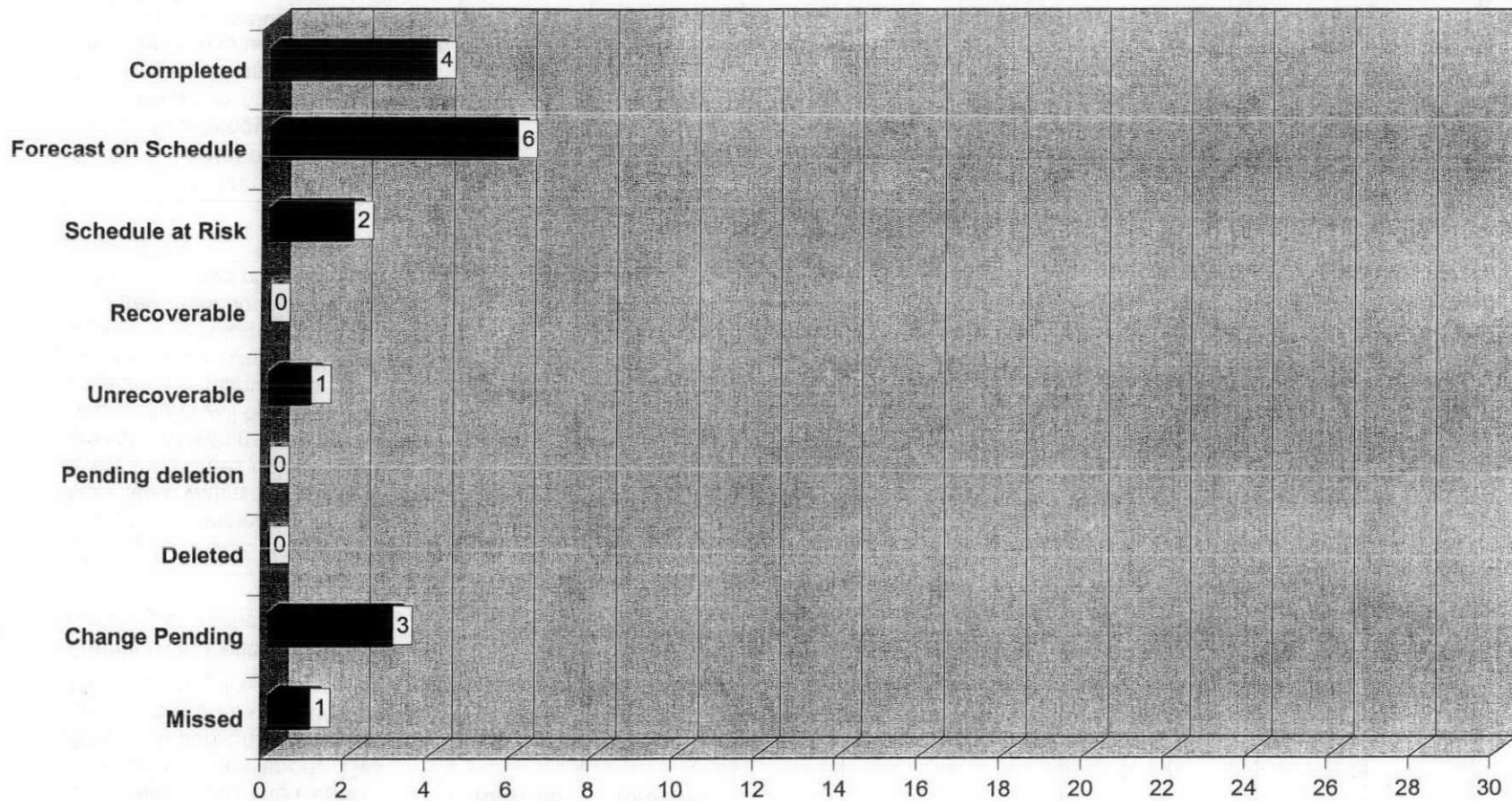
## Fiscal Year 2006 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
	construction of SY-B Valve Pit upgrade [see M 48-07A-C].										
M-048-07A-C	Completion of construction for the 241-SY-B valve pit upgrade (remove existing equipment, evaluate pit integrity, and replace pit coating, if necessary). This scheduled deliverable is a subset of M-48-07A, and thus labeled as M-48-07A-C.	06/30/06	06/08/06								
M-048-07B	The Disposition of all Double-Shell Tank Transfer System Components that will not remain in use beyond June 30, 2005.	06/30/06	6/27/06								
M-062-08	Submittal Of Hanford Tank Waste Supplemental Treatment Technologies Report, Draft Hanford Tank Waste Treatment Baseline, And Draft Negotiations Agreement In Principle (AIP).	06/3/06						X			
M-045-56B	Ecology and DOE agree, at a minimum, to meet yearly (by July or as needed to support annual budgeting) for the specific purpose of assessing the adequacy of information, and the need for the establishment of additional agreement interim measures.	07/01/06	09/05/06								
M-062-01M	Submit Semi-Annual Project Compliance Report	07/31/06	07/31/06								
M-045-00B	Complete specified "near term" SST waste retrieval and interim closure activities, to result in the retrieval of all tank wastes in WMA-C SSTs pursuant to the agreement criteria in milestone M-45-00.	09/30/06						X			
M-045-00C	Initiate negotiation of SST waste retrieval and closure activities and associated schedules (for the	09/30/06						X			

**Fiscal Year 2006 Tri-Party Agreement Milestone Status**

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
	period February 07 through August 08).										

## FY 2007 MILESTONE PERFORMANCE



## Fiscal Year 2007 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
D-001-00-R30	DOE Shall, On A Quarterly Basis, Submit To Ecology A Written Report Documenting Tank Stabilization Activities That Occurred During The Period Covered By The Report. This Written Report Shall Provide The Status Of Progress Made During The Reporting Period.	10/31/06	10/31/06								
M-062-03	Submit DOE Petition for RCRA Delisting of Vitriified HLW	12/31/06	12/31/06								
M-045-00C-A	Ecology and DOE negotiations under this milestone shall be completed within 120 days. In the event the parties do not reach agreement within timeframe, the negotiations will be resolved as a resolution of dispute via final determination. Unless otherwise agreed by Ecology and DOE, this final determination will be issued within 150 days of initiation of negotiations.	01/28/07						X			
M-062-01N	Submit Semi-Annual Project Compliance Report	01/31/07	01/31/07								
M-045-55	Submit to Ecology For Review And Approval as an Agreement Primary Document a Phase I RFI Report integrating results of data gathering activities and evaluations for all SST WMAs.	01/31/07									X
D-001-00-R31	DOE Shall, On A Quarterly Basis, Submit To Ecology A Written Report Documenting Tank Stabilization Activities That Occurred During The Period	01/31/07	01/31/07								



## Fiscal Year 2007 Tri-Party Agreement Milestone Status

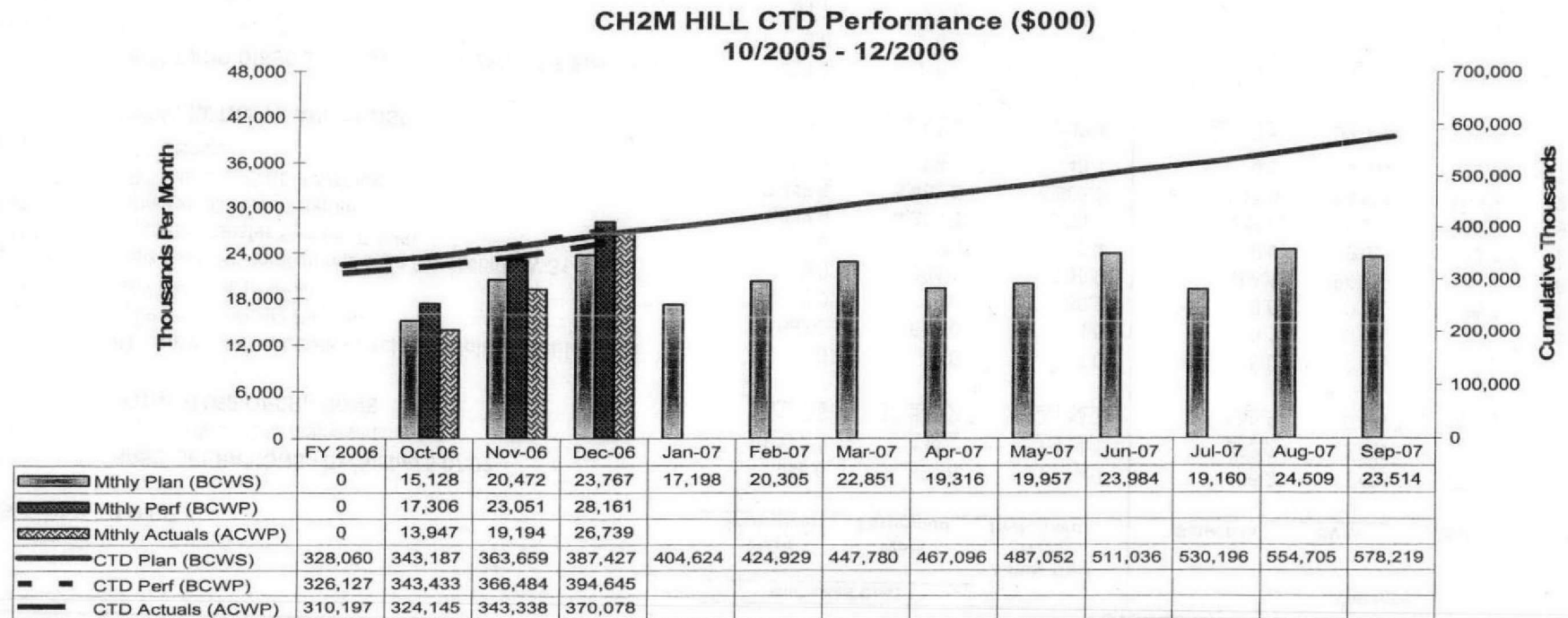
Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
	Covered By The Report. This Written Report Shall Provide The Status Of Progress Made During The Reporting Period.										
M-045-05A	Complete Waste Retrieval from S-102	3/31/07			X						
D-001-00-R32	DOE Shall, On A Quarterly Basis, Submit To Ecology A Written Report Documenting Tank Stabilization Activities That Occurred During The Period Covered By The Report. This Written Report Shall Provide The Status Of Progress Made During The Reporting Period.	04/30/07		X							
M-045-58	Submit to Ecology for review and approval as an Agreement Primary Document a corrective measures study for interim corrective measures (pending results and conclusions in the Phase 1 RFI report- Milestone M-45-55 or subsequent RFI reports).	06/30/07									X
M-062-11	Submit a Final Hanford Tank Waste Treatment Baseline. Following completion of negotiations required by M-62-08, DOE will modify its draft baseline as required and submit its revised, agreed-to baseline for treating all Hanford Tank Waste (HLW, LAW, and TRU) by 12/31/2028.	06/30/07					X				
M-045-56C	Ecology and DOE agree, at a minimum, to meet yearly (by July or as needed to support annual budgeting) for the specific purpose of assessing the adequacy of	07/01/07		X							

## Fiscal Year 2007 Tri-Party Agreement Milestone Status

Milestone No.	Description	Due Date	Completed	Forecast		Recoverable	Unrecoverable	Missed	Pending Deletion	Deleted	Change Pending
				On Schedule	Schedule at Risk						
	information, and the need for the establishment of additional agreement interim measures.										
D-001-00-R33	DOE Shall, On A Quarterly Basis, Submit To Ecology A Written Report Documenting Tank Stabilization Activities That Occurred During The Period Covered By The Report. This Written Report Shall Provide The Status Of Progress Made During The Reporting Period.	07/31/07		X							
M-062-010	Submit Semi-Annual Project Compliance Report	07/31/07		X							
M-045-60	Submit to Ecology for review and approval as an Agreement Primary Document DOE's RFI/CMS work plan for all SST WMAs.	09/30/07									X
M-048-15	Submit a report to Ecology for the re-examination of six (6) DSTs by ultrasonic testing in all areas previously examined to provide comparative data from which to calculate corrosion rates in each of the six DSTs examined.	09/30/07		X							
M-045-05-T05	Initiate tank retrieval from five additional Single-Shell tanks.	09/30/07			X						
M-048-00	Complete Tank Integrity Assessment activities for Hanford's Double Shell Tank (DST) system.	09/30/07		X							



## CURRENT MONTH/CONTRACT TO-DATE PERFORMANCE – GRAPH



BCWS = Budgeted Cost For Work Scheduled

BCWP = Budgeted Cost for Work Performed

ACWP = Actual Cost for Work Perform

## CURRENT MONTH (CM) PERFORMANCE - CHART

CH2M HILL Hanford Group, Inc.

## CURRENT MONTH PERFORMANCE MEASUREMENT - 12/2006

## BY WORK BREAKDOWN STRUCTURE

Dollars in Thousands

WBS	TITLE	Budgeted Cost			Current Month			
		Work Scheduled	Work Performed	Actual Cost Work Performed <sup>1</sup>	Schedule	SV %	Cost	CV %
5.07	BASE OPERATIONS - Excluding 5.07.02	11,965.6	12,391.8	11,719.0	426.2	3.6%	672.8	5.4%
5.07.02	Env/TPA Milestone Achievement	<u>1,172.0</u>	<u>1,434.2</u>	<u>1,414.1</u>	<u>262.2</u>	22.4%	<u>20.0</u>	1.4%
	TOTAL BASE OPERATIONS	<u>13,137.6</u>	<u>13,825.9</u>	<u>13,133.1</u>	<u>688.4</u>	5.2%	<u>692.8</u>	5.0%
5.08	RETRIEVE AND CLOSE - Excluding foll. WBS Elements	0.0	0.0	0.0	0.0	0.0%	0.0	0.0%
5.08.02	WTP Feed Delivery Program	662.9	663.0	624.5	0.1	0.0%	38.5	5.8%
5.08.03	DST Retrieval Program	0.0	0.0	(65.7)	0.0	0.0%	65.7	65.7%
5.08.04.01	Tank Farm Restoration and Safe Operations (W-314)	0.0	294.1	216.9	294.1	294.1%	77.3	26.3%
5.08.04.02	Upgrade Transfer System (E-525)	0.0	0.0	2.4	0.0	0.0%	(2.4)	-2.4%
5.08.05	Retrieval / Closure Program	4,622.9	4,335.3	3,945.0	(287.6)	-6.2%	390.3	9.0%
5.08.06/.07	SST Retrieval East / West Area	2,845.5	5,462.5	4,803.3	2,617.0	92.0%	659.2	12.1%
5.08.12/.13	SST Closure	<u>29.1</u>	<u>29.1</u>	<u>43.1</u>	<u>0.0</u>	0.0%	<u>(14.0)</u>	-47.9%
	TOTAL RETRIEVE AND CLOSE	<u>8,160.4</u>	<u>10,784.0</u>	<u>9,569.4</u>	<u>2,623.6</u>	32.1%	<u>1,214.6</u>	11.3%
5.09	TREAT AND DISPOSE WASTE - Excl. foll. WBS Elements	461.2	396.0	302.8	(65.2)	-14.1%	93.3	23.6%
5.09.02.02	TRU / LLW Packaging	0.0	0.0	0.0	0.0	0.0%	0.0	0.0%
5.09.02.03/.08	LAW Treatment	64.7	63.6	56.2	(1.1)	-1.7%	7.4	11.6%
5.09.02.05/.11	Bulk Vitrification System (BVS) Project	0.0	1,079.1	1,340.5	1,079.1	1079.1%	(261.4)	-24.2%
5.09.03.01	Integrated Disposal Facility	0.0	0.0	(45.2)	0.0	0.0%	45.2	45.2%
5.09.03.04	Initial IHLW Storage Facility (W-464)	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	0.0%	<u>0.0</u>	0.0%
	TOTAL TREAT AND DISPOSE WASTE	<u>525.9</u>	<u>1,538.7</u>	<u>1,654.3</u>	<u>1,012.8</u>	192.6%	<u>(115.6)</u>	-7.5%
5.10	ANALYTICAL/TECHNICAL SERVICES	<u>1,943.4</u>	<u>2,012.2</u>	<u>2,382.5</u>	<u>68.8</u>	3.5%	<u>(370.3)</u>	-18.4%
RPP TOTAL		<u>23,767.3</u>	<u>28,160.9</u>	<u>26,739.4</u>	<u>4,393.6</u>	18.5%	<u>1,421.5</u>	5.0%

<sup>1</sup> ACWP for the current month does not agree with HANDI due to a FEE adjustment. However, overall CTD values agree with HANDI.

BCWS = Budgeted Cost For Work Scheduled

BCWP = Budgeted Cost for Work Performed

ACWP = Actual Cost for Work Perform

# CONTRACT-TO-DATE PERFORMANCE - CHART

CH2M HILL Hanford Group, Inc.

CONTRACT-TO-DATE PERFORMANCE MEASUREMENT - 10/2005 - 12/2006

BY WORK BREAKDOWN STRUCTURE

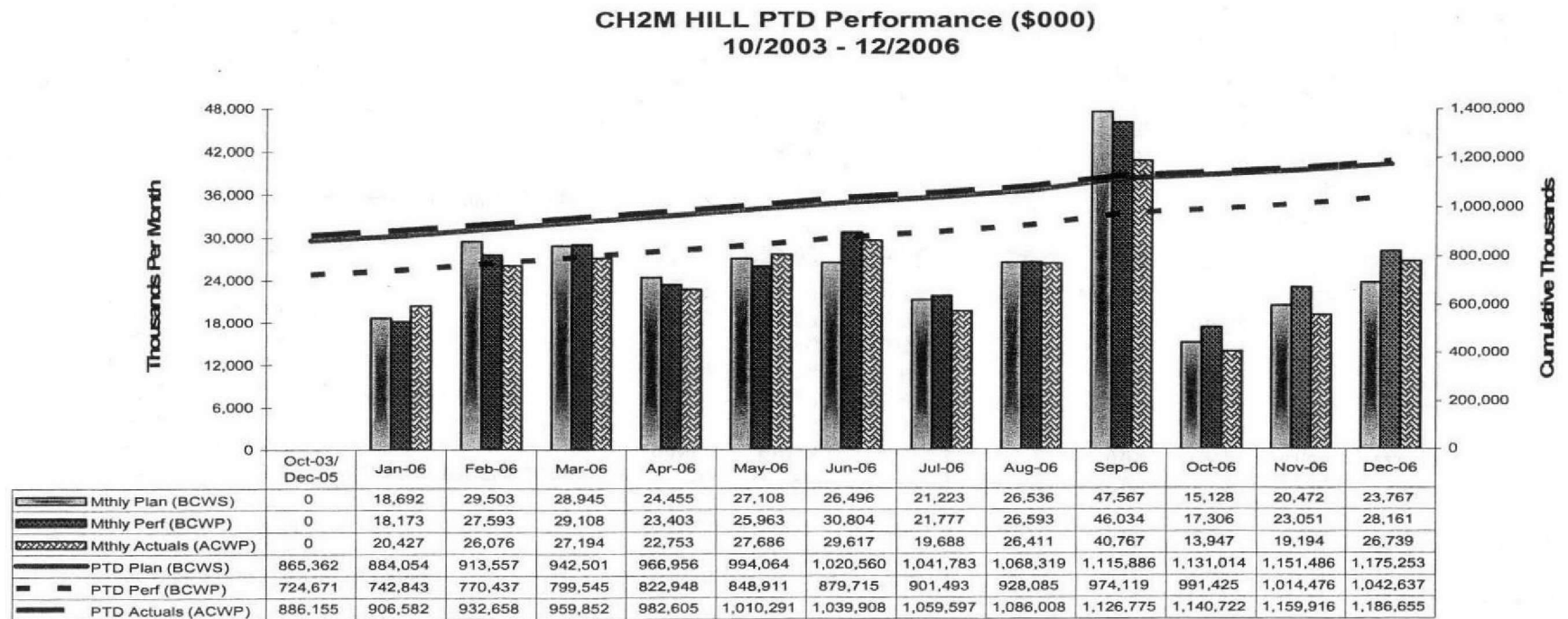
Dollars in Thousands

WBS	TITLE	Cumulative Contract-To-Date			Variance				Budget at Completion (BAC)*	Estimate at Completion (EAC)**
		Budgeted Cost ***		Actual Cost Work Performed	Schedule	SV %	Cost	CV %		
		Work Scheduled	Work Performed							
5.07	BASE OPERATIONS - Excluding 5.07.02	187,687.2	188,265.0	174,432.9	577.7	0.3%	13,832.1	7.3%	426,638.5	136,800.9
5.07.02	Env/TPA Milestone Achievement	<u>23,445.8</u>	<u>24,219.2</u>	<u>24,136.4</u>	<u>773.4</u>	<u>3.3%</u>	<u>82.8</u>	<u>0.3%</u>	<u>49,280.8</u>	<u>18,647.1</u>
	TOTAL BASE OPERATIONS	<u>211,133.0</u>	<u>212,484.1</u>	<u>198,569.2</u>	<u>1,351.1</u>	<u>0.6%</u>	<u>13,914.9</u>	<u>6.5%</u>	<u>475,919.3</u>	<u>155,448.0</u>
5.08	RETRIEVE AND CLOSE - Excluding foll. WBS Elements	0.0	0.0	0.0	0.0	0.0%	0.0	0.0%	0.0	0.0
5.08.02	WTP Feed Delivery Program	9,049.2	9,049.3	7,995.7	0.1	0.0%	1,053.7	11.6%	22,019.8	7,107.8
5.08.03	DST Retrieval Program	1,676.3	1,676.3	2,175.4	0.0	0.0%	(499.1)	-29.8%	1,676.3	35.6
5.08.04.01	Tank Farm Restoration and Safe Operations (W-314)	2,865.8	3,688.2	3,596.2	822.4	28.7%	92.0	2.5%	2,865.8	3,807.9
5.08.04.02	Upgrade Transfer System (E-525)	2,712.4	2,712.4	3,056.0	0.0	0.0%	(343.6)	-12.7%	2,712.4	2.7
5.08.05	Retrieval / Closure Program	63,272.0	62,278.5	54,399.2	(993.5)	-1.6%	7,879.3	12.7%	147,167.8	47,132.6
5.08.06/07	SST Retrieval East / West Area	28,624.2	33,430.7	32,263.5	4,806.4	16.8%	1,167.2	3.5%	53,309.2	37,491.8
5.08.12/13	SST Closure	<u>532.2</u>	<u>531.4</u>	<u>484.4</u>	<u>(0.8)</u>	<u>-0.2%</u>	<u>47.0</u>	<u>8.8%</u>	<u>1,101.8</u>	<u>334.4</u>
	TOTAL RETRIEVE AND CLOSE	<u>108,732.1</u>	<u>113,366.7</u>	<u>103,970.4</u>	<u>4,634.6</u>	<u>4.3%</u>	<u>9,396.4</u>	<u>8.3%</u>	<u>230,853.0</u>	<u>95,912.8</u>
5.09	TREAT AND DISPOSE WASTE - Excl. foll. WBS Elements	5,161.2	4,980.0	4,323.5	(181.2)	-3.5%	656.5	13.2%	14,127.3	4,140.4
5.09.02.02	TRU / LLW Packaging	0.0	0.0	65.6	0.0	0.0%	(65.6)	0.0%	0.0	(0.1)
5.09.02.03/08	LAW Treatment	881.5	881.5	877.8	0.0	0.0%	3.6	0.4%	2,150.2	672.0
5.09.02.05/11	Bulk Vitrification System (BVS) Project	26,639.2	28,257.9	31,108.5	1,618.7	6.1%	(2,850.6)	-10.1%	26,639.2	11,320.9
5.09.03.01	Integrated Disposal Facility	7,174.3	7,132.9	5,409.5	(41.4)	-0.6%	1,723.5	24.2%	7,174.3	(225.7)
5.09.03.04	Initial IHLW Storage Facility (W-464)	<u>109.4</u>	<u>109.4</u>	<u>35.1</u>	<u>0.0</u>	<u>0.0%</u>	<u>74.3</u>	<u>67.9%</u>	<u>109.4</u>	<u>0.7</u>
	TOTAL TREAT AND DISPOSE WASTE	<u>39,965.7</u>	<u>41,361.7</u>	<u>41,820.0</u>	<u>1,396.0</u>	<u>3.5%</u>	<u>(458.3)</u>	<u>-1.1%</u>	<u>50,200.5</u>	<u>15,908.2</u>
5.10	ANALYTICAL/TECHNICAL SERVICES	<u>27,595.7</u>	<u>27,432.2</u>	<u>25,718.1</u>	<u>(163.5)</u>	<u>-0.6%</u>	<u>1,714.1</u>	<u>6.2%</u>	<u>66,823.4</u>	<u>26,167.3</u>
RPP TOTAL		<u>387,426.5</u>	<u>394,644.8</u>	<u>370,077.7</u>	<u>7,218.2</u>	<u>1.9%</u>	<u>24,567.1</u>	<u>6.2%</u>	<u>823,796.1</u>	<u>293,436.3</u>

\* BAC on this chart and in succeeding Cumulative Performance tables is for the period FY 2006 - FY 2008.

\*\* EAC on this chart is for FY 2007.

## PROGRAM-TO-DATE (PTD) Performance - Graph



BCWS = Budgeted Cost For Work Scheduled

BCWP = Budgeted Cost for Work Performed

ACWP = Actual Cost for Work Perform

## PTD Cost/Schedule Performance - Chart

**CH2M HILL Hanford Group, Inc.**  
**CUMULATIVE PERFORMANCE MEASUREMENT - 10/2003 - 12/2006**  
**BY WORK BREAKDOWN STRUCTURE**

Dollars in Thousands

WBS	TITLE	Budgeted Cost			Cumulative Program-To-Date				Budget at Completion (BAC) *
		Work Scheduled	Work Performed	Actual Cost Work Performed	Variance				
					Schedule	SV %	Cost	CV %	
5.07	BASE OPERATIONS - Excluding 5.07.02	448,016.2	445,212.4	446,054.8	(2,803.8)	-0.6%	(842.4)	-0.2%	686,967.4
5.07.02	Env/TPA Milestone Achievement	81,402.7	73,435.4	64,646.4	(7,967.3)	-9.8%	8,789.0	12.0%	107,237.7
	TOTAL BASE OPERATIONS	529,418.9	518,647.8	510,701.2	(10,771.1)	-2.0%	7,946.6	1.5%	794,205.1
5.08	RETRIEVE AND CLOSE - Excluding foll. WBS elements	6,785.7	6,939.5	4,097.9	153.8	2.3%	2,841.6	40.9%	6,785.6
5.08.02	WTP Feed Delivery Program	30,494.3	30,328.7	38,747.3	(165.6)	-0.5%	(8,418.6)	-27.8%	43,464.8
5.08.03	DST Retrieval Program	30,547.2	21,461.0	25,595.5	(9,086.2)	-29.7%	(4,134.5)	-19.3%	30,547.2
5.08.04.01	Tank Farm Restoration and Safe Operations (W-314)	37,633.4	35,291.1	42,159.5	(2,342.3)	-6.2%	(6,868.4)	-19.5%	37,633.4
5.08.04.02	Upgrade Transfer System (E-525)	17,307.8	14,165.1	26,782.9	(3,142.7)	-18.2%	(12,617.8)	-89.1%	17,307.8
5.08.05	Retrieval / Closure Program	153,500.7	142,095.2	154,426.0	(11,405.5)	-7.4%	(12,330.8)	-8.7%	237,396.4
5.08.06/07	SST Retrieval East / West Area	122,248.3	72,247.8	148,378.4	(50,000.5)	-40.9%	(76,130.6)	-105.4%	146,933.5
5.08.12/13	SST Closure	17,196.3	7,334.6	10,761.9	(9,861.7)	-57.3%	(3,427.3)	-46.7%	17,765.9
	TOTAL RETRIEVE AND CLOSE	415,713.7	329,863.0	450,949.4	(85,850.7)	-20.7%	(121,086.4)	-36.7%	537,834.6
5.09	TREAT AND DISPOSE WASTE - Excl. foll. WBS Elements	27,226.0	24,323.8	19,039.8	(2,902.2)	-10.7%	5,284.0	21.7%	37,581.8
5.09.02.02	TRU / LLW Packaging	28,343.4	11,695.5	19,883.5	(16,647.9)	-58.7%	(8,188.0)	-70.0%	28,343.4
5.09.02.03/08	LAW Treatment	5,530.8	5,375.4	5,669.1	(155.4)	-2.8%	(293.7)	-5.5%	5,409.9
5.09.02.05/11	Bulk Vitrification System (BVS) Project	58,842.4	48,960.4	88,331.9	(9,882.0)	-16.8%	(39,371.5)	-80.4%	58,842.4
5.09.03.01	Integrated Disposal Facility	33,952.4	29,670.8	20,750.8	(4,281.6)	-12.6%	8,920.0	30.1%	33,952.4
5.09.03.04	Initial IHLW Storage Facility (W-464)	4,789.3	4,553.4	2,673.2	(235.9)	-4.9%	1,880.2	41.3%	4,789.3
	TOTAL TREAT AND DISPOSE WASTE	158,684.3	124,579.3	156,348.3	(34,105.0)	-21.5%	(31,769.0)	-25.5%	168,919.2
5.10	ANALYTICAL/TECHNICAL SERVICES	71,436.1	69,546.9	68,656.3	(1,889.2)	-2.6%	890.5	1.3%	110,663.8
RPP TOTAL		1,175,252.8	1,042,637.0	1,186,655.2	(132,615.8)	-11.3%	(144,018.1)	-13.8%	1,611,622.7

\* BAC on this chart and in succeeding Cumulative Performance tables is for the period through FY 2008.

## **EXECUTIVE SUMMARY**

### **ON**

## **TANK FARM EARNED VALUE REPORTING**

This Executive Summary reports the cost and schedule performance for the Tank Farm Contractor (TFC), CH2M HILL Hanford Group, Inc. (CH2M HILL) for the month of December 2006.

CH2M HILL's overall contract-to-date (CTD) favorable cost variance improved by \$1.4M to \$24.6M. Contract-to-date reporting represents the period FY 2006 through FY 2008. The primary contributors to the positive variance continue to be passbacks for over liquidation of continuity of service; reduced costs for shared services/liquidations; 222-S Laboratory Base Services due to achieving work scope with less labor; and Closure Base Operations due to completion of several projects under budget. These positive cost variances are partially offset by negative variances attributed to the DBVS where additional labor was required for the extended subcontractor design effort; unplanned costs for Tanks 241-C-103 and 241-S-102 retrievals; Safety Program due to the incremental costs for vapor sample analysis; and unplanned costs for Advanced Technologies and Laboratories International, Inc. (ATL) Readiness to Serve.

The CH2M HILL favorable CTD schedule variance increased in December from \$2.6M to \$7.2M. The variance is primarily due to acceleration of Tanks 241-C-108 and 241-S-102, Isolate Transfer System Components, and WFO work scopes; completion of DBVS work in FY 2007 supporting the Expert Review Panel issue resolution planned for performance in FY 2009; and W-314 Project due to Phase 2 SY and AW Upgrades accelerated scope. The favorable variances were partially offset by Waste Management due to the delay in processing waste treatment and disposal; and delays in retrieval of Tanks 241-C-201 and 241-C-204.



## 5.07 - BASE OPERATIONS (EXCLUDES 5.07.02)

**Scope Description:** The baseline scope for this work breakdown structure (WBS) includes monitoring and maintaining the DST and equipment in compliance with Technical Safety Requirements, and Environmental, Safety, Health and Quality programmatic requirements. This also includes necessary support activities such as project management, engineering, business services, and support to training and procedures. Base Operations also provides site, shared, and miscellaneous services including Service Assessment Pool and Advanced Medical Services. In addition, contract fee for completing PBI is included.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	11,965.6	12,391.8	11,719.0	426.2 3.6%	672.8 5.4%	
CTD	186,687.2	188,265.0	174,432.9	577.7 0.3%	13,832.1 7.3%	426,638.5
PTD	448,016.2	445,212.4	446,054.8	(2,803.8) -0.6%	(842.4) -0.2%	686,967.4

**SCHEDULE VARIANCE**

**Description and Cause:** The CM and CTD unfavorable variances are within the threshold of  $\pm 10$  percent or \$1M. The PTD unfavorable variance is primarily due to the contract fee associated with PBI milestones not being earned as planned.

**Impact:** None. A revised Tank Farm Contract has been issued with new PBI milestones. Previous PBI milestones have been closed, completed, or covered in a Request for Equitable Adjustment.

**Corrective Action:** None required.

**COST VARIANCE**

**Description and Cause:** The CM and PTD variances are within the threshold of  $\pm 10$  percent or \$1M. The CTD favorable variance is due to receipt of FY 2006 year-end cost pass backs for continuity of service and to moving spare parts inventory from this cost

account to Operations accounts. Additionally, costs are lower than planned for Site-Wide Shared Services, Advanced Medical Services, Business and Occupation taxes, expenses related to site layoffs, work for others, and Project support costs. The favorable variance is partially offset by higher than planned costs for the Environmental Health Program sampling activity and the Readiness to Serve adder from ATL, WFO surveillance, and the Tank 241-AN-107 Chemistry Optimization activity.

**Impact:** None.

**Corrective Action:** None required.



## 5.07.02 - ENVIRONMENTAL/TRI-PARTY AGREEMENT MILESTONE ACHIEVEMENT

**Scope Description:** The baseline provides for the safe and compliant storage of the Hanford Site tank wastes until waste is retrieved for processing (currently 53 million gallons of waste in 177 SST and DSTs and approximately 60 miscellaneous underground storage tanks (MUSTS). This includes monitoring and maintaining activities associated with the Hanford Federal Facility Agreement and Consent Order (HFFACO), commonly referred to as the Tri-Party Agreement. Scope includes compliance efforts to meet Tri-Party Agreement Milestones M-23, M-46, and M-48, including characterization, DST Space Management and DST Integrity. Scope includes transfer operations and the operations and maintenance of the 242-A Evaporator to reduce the volume of waste stored in DSTs.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	1,172.0	1,434.2	1,414.1	262.2 22.4%	20.0 1.4%	
CTD	23,445.8	24,219.2	24,136.4	773.4 3.3%	82.8 0.3%	49,280.8
PTD	81,402.7	73,435.4	64,646.4	(7,967.3) -9.8%	8,789.0 12.0%	107,237.7

**SCHEDULE VARIANCE**

**Description and Cause:** The CM and CTD variances are within the threshold of  $\pm 10$  percent or \$1M. The PTD unfavorable variance is due to deferral of certain DST Infrastructure and Tank Farm Upgrades activities; delays in DST ultrasonic test (UT) activities caused by vapor mitigation activities and the need to rescan two DSTs; and vendor-experienced software problems.

**Impact:** The PTD unfavorable variance will result in some DST Infrastructure and Tank Farm Upgrades activities being delayed.

**Corrective Action:** FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

**COST VARIANCE**

**Description and Cause:** The CM and CTD variances are within the threshold of  $\pm 10$  percent or \$1M. The PTD favorable cost variance is due to lower than planned level-of-effort support to DST waste transfers as a result of delays in SST retrievals, and underruns in certain level-of-effort DST Space Management Project activities.

**Impact:** None.

**Corrective Action:** None required.

5.08 - RETRIEVE AND CLOSE (EXCLUDES 5.08.02/.03; 5.08.04.01/.02; 5.08.05/.06/.07/.12/.13)

**Scope Description:** The remaining scope in the baseline for WBS 5.08 is Interim Stabilization, and installation and startup of the AP-101 Waste Transfer Pumping System. Work in this WBS removes pumpable liquids from SSTs to minimize the risk of leakage (referred to as "Interim Stabilization") and meet Consent Decree commitments. The scope also includes consolidation of some of the activities associated with interim isolation of tanks with retrieval and closure of SSTs. In the future, specific life cycle scope in this WBS also includes DST Retrieval and Closure and Closure of Long Term Facilities and Post Closure Monitoring. These activities are all outside of the contract period reporting window.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	0.0	0.0	0.0	0.0 0.0%	0.0 0.0%	
CTD	0.0	0.0	0.0	0.0 0.0%	0.0 0.0%	0.0
PTD	6,785.7	6,939.5	4,097.9	153.8 2.3%	2,841.6 40.9%	6,785.6

#### SCHEDULE VARIANCE

**Description and Cause:** The PTD variance is within the threshold of  $\pm 10$  percent or \$1M.

**Impact:** No impact.

**Corrective Action:** None required.

#### COST VARIANCE

**Description and Cause:** The favorable PTD variance is due to Interim Stabilization activities, which were completed under the estimated cost, but is partially offset by the AP-101 Transfer Pump Replacement, where costs were in excess of baseline estimates due to vapor mitigation activities and the use of significant amount of overtime.

**Impact:** No impact.

**Corrective Action:** None required.

## 5.08.02 - WASTE TREATMENT PLANT (WTP) FEED DELIVERY PROGRAM

**Scope Description:** The baseline provides Waste Feed Delivery management and engineering support. It also provides management of construction projects and startup and testing oversight, including the Project Delivery Program account which includes maintaining key support staff associated with the DBVS Project. Emerging issues necessary to safely manage and perform work have expanded the scope of work performed in this WBS to include vapor mitigation efforts and stack relocation activities.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	662.9	663.0	624.5	0.1 0.0%	38.5 5.8%	
CTD	9,049.2	9,049.3	7,995.7	0.1 0.0%	1,053.7 11.6%	22,019.8
PTD	30,494.3	30,328.7	38,747.3	(165.6) -0.5%	(8,418.6) -27.8%	43,464.8

**SCHEDULE VARIANCE**

**Description and Cause:** The CM, CTD, and PTD variances are within the threshold of  $\pm 10$  percent or \$1M.

**Impact:** No impact.

**Corrective Action:** None required.

**COST VARIANCE**

**Description and Cause:** The CM variance is within the threshold of  $\pm 10$  percent or \$1M. The CTD favorable variance is due to efficiencies realized through reduction of internal and contract labor. The PTD unfavorable cost variance is due to greater than planned costs for support of vapor mitigation activities.

**Impact:** Increased PTD costs are impacting the ability to complete all planned baseline scope.

**Corrective Action:** FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

## 5.08.03 - DST RETRIEVAL PROGRAM

**Scope Description:** The baseline for this WBS element includes activities required to plan, provide, and operate systems for retrieving waste from the DSTs, preparing it for feed to the Waste Treatment Plant (WTP), and then transferring it to the WTP.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	0.0	0.0	(65.7)	0.0 0.0%	65.7 65.7%	
CTD	1,676.3	1,676.3	2,175.4	0.0 0.0%	(499.1) -29.8%	1,676.3
PTD	30,547.2	21,461.0	25,595.5	(9,086.2) -29.7%	(4,134.5) -19.3	30,547.2

**SCHEDULE VARIANCE**

**Description and Cause:** The PTD unfavorable variance is a result of deferring the Tanks 241-AY-101, 241-AY-102, and 241-AZ-102 Retrieval Systems, and start-up of the Tank 241-AN-101 Retrieval System to future years.

**Impact:** There is no adverse impact to the overall project and near-term waste transfers.

**Corrective Action:** FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

**COST VARIANCE**

**Description and Cause:** The CM favorable variance is due to reversal of a prior month cost accrual. The CTD unfavorable variance is due to the higher than planned negotiated costs for design of a mixer pump. The PTD unfavorable cost variance is primarily due to costs related to added scope, the as-built drawings effort, and vapor mitigation activities on the Tank 241-AN-101 Retrieval System.

**Impact:** The PTD unfavorable variance is unrecoverable.

**Corrective Action:** FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

### 5.08.04.01 - PROJECT W-314 (TANK FARM RESTORATION AND SAFE OPERATIONS)

**Scope Description:** The baseline for Project W-314 provides essential tank farm infrastructure upgrades to support waste feed delivery to the WTP and to correct environmental compliance deficiencies with the tank farm support systems. Work scope includes waste transfer line installation, valve pit upgrades, ventilation system upgrades, instrument/control system upgrades, electrical distribution system upgrades and installation of a Master Pump Shutdown system. The project scope includes Phase 1 and 2 upgrades in seven different tank farms (AN, AW, AY, AZ, AP, SY, and A), as well as transfer system upgrades between tank farms.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	0.0	294.1	216.9	294.1 294.1%	77.3 26.3%	
CTD	2,865.8	3,688.2	3,596.2	822.4 28.7%	92.0 2.5%	2,865.8
PTD	37,633.4	35,291.1	42,159.5	(2,342.3) -6.2%	(6,868.4) -19.5%	37,633.4

#### SCHEDULE VARIANCE

**Description and Cause:** The CM and CTD favorable variances are due to the acceleration of selected Project W-314 work scope from FY 2009. The PTD unfavorable variance is primarily due to delays in field construction and start-up/turnover activities as a result of changes to operational priorities and funding reductions, as-found field conditions, and vapor mitigation.

**Impact:** None.

**Corrective Action:** FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

**COST VARIANCE**

**Description and Cause:** The baseline reflects a negligible CM favorable variance, and a CTD unfavorable variance that is within the threshold of  $\pm 10$  percent or \$1M. The PTD unfavorable variance is primarily caused by vapor mitigation activities and as-found field conditions, which resulted in additional effort in field construction, and extended project management and engineering support.

**Impact:** The PTD cost variance is not recoverable.

**Corrective Action:** FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.



## 5.08.04.02 - PROJECT E-525 (UPGRADE TRANSFER SYSTEMS)

**Scope Description:** The baseline for Project E-525 provides activities required to define, design, procure, construct, test, turnover, and manage modifications to a portion of the DST Transfer System. The scope of Project E-525 is further defined within the following five design/construction packages: 1) AZ-151 Catch Tank Replacement, 2) Clean-Out Box (COB) Modifications, 3) SY-Farm Transfer Lines, 4) 204-AR Load-Out Facility Transfer Line, and 5) Plutonium Finishing Plant Transfer Lines. These modifications brought a portion of the DST transfer system into compliance with Washington Administrative Code 173-303-640, in support of Tri-Party Agreement Milestone M-43-00.

	BCWS	BCWP	ACWP	SV	CV	BAC
<b>CM</b>	0.0	0.0	2.4	0.0 0.0%	(2.4) -2.4%	
<b>CTD</b>	2,712.4	2,712.4	3,056.0	0.0 0.0%	(343.6) -12.7%	2,712.4
<b>PTD</b>	17,307.8	14,165.1	26,782.9	(3,142.7) -18.2%	(12,617.8) -89.1%	17,307.8

**SCHEDULE VARIANCE**

**Description and Cause:** The PTD unfavorable variance is primarily due to deferral of remaining field construction for the AZ-151 Catch Tank Bypass, SY-Farm Transfer Line Upgrades, and remaining AW-Farm COBs, because of operational priorities and funding reductions.

**Impact:** None.

**Corrective Action:** FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

**COST VARIANCE**

**Description and Cause:** The CM favorable variance is within the threshold of  $\pm 10$  percent or \$1M. The CTD unfavorable variance is due to performing COBs and SY-Farm Transfer Line Backfill work on supplied air (not budgeted), partially offset by underruns on the AZ-151 Catch Tank Bypass Construction and efficiencies in Project Support. The PTD unfavorable cost variance is primarily in Field Construction and is due to unplanned costs attributable to unexpected as-found field conditions, enhanced work package development/approval, and vapor mitigation activities.

**Impact:** The PTD cost overruns are not recoverable.

**Corrective Action:** FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

## 5.08.05 - RETRIEVAL / CLOSURE PROGRAM

**Scope Description:** The baseline provides for Retrieval and Closure support activities in this WBS. Specifically, the scope includes program management, regulatory documentation, SST cross-site transfers, technology development, cold test facility management and maintenance, Vadose Zone support, inactive waste sites administration, Tank Farm Support Facilities/Transfer Systems. The scope also includes the Closure Project Technical Safety Requirement/Basic Maintenance on SSTs, Closure Project Operations Essential Services, Closure Project Field Projects/Upgrades, and the solid waste management programs.

	BCWS	BCWP	ACWP	SV	CV	BAC
<b>CM</b>	4,622.9	4,335.3	3,945.0	(287.6) -6.2%	390.3 9.0%	
<b>CTD</b>	63,272.0	62,278.5	54,399.2	(993.5) -1.6%	7,879.3 12.7%	147,167.8
<b>PTD</b>	153,500.7	142,095.2	154,426.0	(11,405.5) -7.4%	(12,330.8) -8.7%	237,396.4

**SCHEDULE VARIANCE**

**Description and Cause:** The CM unfavorable variance is within the threshold of  $\pm 10$  percent or \$1M. The CTD unfavorable variance is due to Vadose Zone RCRA Corrective Actions caused by delays in the C-Farm angle push field work (availability of work packages, training, equipment failures, and weather conditions); and the Waste Management Program because of delay in processing solid waste for treatment and disposal while negotiating new waste disposal contracts, allowing the existing waste treatment contractor to complete actions to receive long length contaminated equipment, delay in issuance of Environmental Restoration Disposal Facility Record of Decision for large equipment, and weather impacts to equipment removal and preparation. The unfavorable variances are partially offset by acceleration of the CR Vault pumping system procurement and testing. The PTD unfavorable schedule variance is primarily because of field work delays on Vadose Zone RCRA Corrective Actions activities (resource availability issues, vapor mitigation activities, and weather delays); delays on starting Tank Farm Risk Assessments modeling and waste constituent studies; and delays in Liquid Level and Video Assessment, and Hose-in Hose Transfer Line (HIHTL)

**Corrective Action:** FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

## **COST VARIANCE**

**Description and Cause:** The baseline reflects a negligible CTD unfavorable variance due to residual costs received in early FY 2006. The PTD unfavorable cost variance results from unplanned costs for rework associated with NEPA document revision per the ORP, new scope to issue the PDSA, and the packaging vendor's inadequate design estimation.

**Impact:** A revised estimate at completion for the project has been developed and will be reflected in the life cycle baseline.

**Corrective Action:** FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

## 5.09.02.03/.08 - LAW TREATMENT

**Scope Description:** The baseline provides for (1) Bulk Vitrification / Containerized Grout including: issue Request for Proposal for Containerized Grout predown-select effort; issue Request for Proposal for Bulk Vitrification predown-select effort; award contract to vendor for testing and engineering pre-conceptual design development; contract costs for vendor testing and design; support contract testing and design; and issue predown-select data package; (2) Steam Reforming: prepare conceptual design for Hanford-deployable Steam Reforming unit [Phase 0]; award contract to vendor for testing and engineering preconceptual design development; contract costs for vendor testing and design; support contract testing and design; and issue predown-select data package; (3) Pre-Treatment/Sulfate Removal: evaluate dissolution progress during Tanks 241-S-102 and 241-U-107 retrieval operations; and evaluate high integrity containers for cesium removal; Post Down Select: perform long-lead permitting activities: issue procurement package and award contract for low activity waste (LAW) system construction; contract costs for vendor design, fabrication, and testing; support contractor design, fabrication, and testing; issue design; implement field modifications for tank farm LAW system deployment; and operate LAW system.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	64.7	63.6	56.2	(1.1) -1.7%	7.4 11.6%	
CTD	881.5	881.5	877.8	0.0 0.0%	3.6 0.4%	2,150.2
PTD	5,530.8	5,375.4	5,669.1	(155.4) -2.8%	(293.7) -5.5%	5,409.9

**SCHEDULE VARIANCE**

**Description and Cause:** The CM and PTD variances are within the threshold of  $\pm 10$  percent or \$1M.

**Impact:** None.

**Corrective Action:** None required.

**COST VARIANCE**

**Description and Cause:** The CM, CTD, and PTD variances are within the threshold of  $\pm 10$  percent or \$1M.

**Impact:** None.

**Corrective Action:** None required.

### 5.09.02.05/.11 – DEMONSTRATION BULK VITRIFICATION SYSTEM (DBVS) PROJECT

**Scope Description:** The baseline provides work scope to issue procurement package and award contract; contract costs; support contract costs; and direct labor costs for project management and control, permitting, safety document preparation, readiness review activities, and engineering for the following: vendor design, fabrication, construction, installation, testing and operation of a Supplemental Treatment Test and Demonstration Facility; vendor design and fabrication of a salt waste retrieval system; and vendor design and construction required for Supplemental Treatment Test and Demonstration Facility site preparation, including infrastructure. The following is also provided: direct labor costs for installation, startup and operation of a salt waste retrieval system; material and utility costs in support of Supplemental Technology Demonstrations; and decontamination and decommissioning costs associated with Supplemental Technology Demonstrations.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	0.0	1,079.1	1,340.5	1,079.1 1,079.1%	(261.4) -24.2%	
CTD	26,639.2	28,257.9	31,108.5	1,618.7 6.1%	(2,850.6) -10.1%	26,639.2
PTD	58,842.4	48,960.4	88,331.9	(9,882.0) -16.8%	(39,371.5) -80.4%	58,842.4

#### SCHEDULE VARIANCE

**Description and Cause:** The CM and CTD favorable variances are due to the DBVS Project accomplishing accelerated work this fiscal year that is planned for performance in FY 2009. This early performance of work supports resolution of the Expert Review Panel issues. The PTD unfavorable schedule variance is due to delays caused by technical issues associated with the failed melt container, additional environmental standard for the off-gas system, and delay in placement of procurements to determine if the specifications could be modified to reduce costs.

**Impact:** The PTD variance is not recoverable.

**Corrective Action:** FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is



managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

### **COST VARIANCE**

**Description and Cause:** The CM unfavorable variance is due to additional subcontract cost required to support Expert Review Panel comment resolution. The CTD unfavorable variance is due to additional engineering manpower and subcontractor effort required to issue, review, revise, and complete the DBVS design two months later than planned. The PTD unfavorable cost variance is a realization of risks for which no contingency was planned, including higher than anticipated negotiated contract costs with AMEC Earth and Environmental (the primary DBVS subcontractor) for design, fabrication, and installation; and new project scope (Engineering Scale-13).

**Impact:** The CTD variance is not recoverable. The PTD cost variances for supplemental treatment will be addressed with the approval and implementation of the life cycle performance baseline.

**Corrective Action:** None required.

## 5.09.03.01 - INTEGRATED DISPOSAL FACILITY

**Scope Description:** The baseline provides for planning, designing, and constructing the onsite expandable IDF for disposing of compliant ILAW stream packages produced at the WTP and through supplemental treatment, and the U.S. Department of Energy, Richland Operations Office (DOE-RL) generated mixed low-level waste (MLLW) and LLW. The IDF will consist of the initial capacity near-surface, remote-handled waste trench facility to support WTP Operations ILAW Production and the DOE-RL MLLW and LLW disposal quantities. Infrastructure necessary to provide operations and maintenance support (e.g., utilities, roads, and fencing) will be provided by this WBS.

	BCWS	BCWP	ACWP	SV	CV	BAC
<b>CM</b>	0.0	0.0	(45.2)	0.0 0.0%	45.2 45.2%	
<b>CTD</b>	7,174.3	7,132.9	5,409.5	(41.4) -0.6%	1,723.5 24.2%	7,174.3
<b>PTD</b>	33,952.4	29,670.8	20,750.8	(4,281.6) -12.6%	8,920.0 30.1%	33,952.4

**SCHEDULE VARIANCE**

**Description and Cause:** The CTD unfavorable variance is within the threshold of  $\pm 10$  percent or \$1M. The PTD unfavorable schedule variance is a function of implementation of the Interim Baseline in FY 2006. The IDF was completed on schedule in April 2006, and is currently in a "Care and Custody" condition. The variance will be eliminated with approval and implementation of the revised baseline.

**Impact:** None.

**Corrective Action:** FY 2006 was managed under an interim approved baseline. CH2M HILL has submitted a full rebaseline for FY 2007 – FY 2042 to the DOE, and is managing to this revised baseline. The behind schedule PTD scope has been replanned in the revised baseline, and upon approval this revised baseline will provide management with a more meaningful tool to assess performance.

**COST VARIANCE**

**Description and Cause:** The CM and CTD favorable variance is due to effective management of construction changes, utilization of internal engineering resources rather than subcontracted support, and less project management resource usage than planned. The project realized a favorable variance at construction completion, but a portion of this variance will be required to fund Care and Custody of the facility. The PTD favorable variance is due to the favorable fixed-price contract for the IDF.

**Impact:** No impact.

**Corrective Action:** None required.

## 5.09.03.04 - PROJECT W-464 (INITIAL IHLW STORAGE FACILITY)

**Scope Description:** The baseline provides for Project W-464, Interim Storage Facility which is a Canister Storage Building Retrofit Subproject that addresses initial operations storage. This element provides onsite interim storage for Initial Operations IHLW canisters until they can be shipped to an offsite geological repository. The planning for receipt and interim storage of the IHLW canisters shall comply with the Waste Acceptance System Requirements Document and the Office of Civilian Radioactive Waste Management Waste Acceptance Preliminary Specifications. This WBS covers equipment for transportation of IHLW canisters from the WTP to the interim storage facilities. The work scope activities included under this WBS element are as follows: Provide Project Management (Capital) and project engineering required for execution of design, procurement and construction of the Interim Storage Facility.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	0.0	0.0	0.0	0.0 0.0%	0.0 0.0%	
CTD	109.4	109.4	35.1	0.0 0.0%	74.3 67.9%	109.4
PTD	4,789.3	4,553.4	2,673.2	(235.9) -4.9%	1,880.2 41.3%	4,789.3

**SCHEDULE VARIANCE**

**Description and Cause:** The PTD variance is within the threshold of  $\pm 10$  percent or \$1M.

**Impact:** No impact.

**Corrective Action:** None required.

**COST VARIANCE**

**Description and Cause:** The negligible CTD favorable variance is due to effective project management and utilizing less project management support resources than planned. The PTD favorable variance is due to efficiencies realized on the detailed design activity, resulting from favorable contract performance.

**Impact:** No impact.

**Corrective Action:** None required.

## 5.10 - ANALYTICAL TECHNICAL SERVICES

**Scope Description:** The baseline scope includes ATS management and Hanford Services support in order to meet the capability/capacity requirements on the 222-S Laboratory complex for the Hanford mission. Also included are: 222-S Laboratory spares; 222-S Laboratory spare reserves; capital equipment not related to construction; technology development activities; perform facility assessment and characterization activities; develop NEPA and other regulatory documentation, deactivation plans, post-deactivation surveillance and maintenance plans; develop deactivation endpoints and turnover package; flush, isolate, and blank process or sub-process systems; and remove radioactive and hazardous materials and mixed wastes.

	BCWS	BCWP	ACWP	SV	CV	BAC
CM	1,943.4	2,012.2	2,382.5	68.8 3.5%	(370.3) -18.4%	
CTD	27,595.7	27,432.2	25,718.1	(163.5) -0.6%	1,714.1 6.2%	66,823.4
PTD	71,436.1	69,546.9	68,656.3	(1,889.2) -2.6%	890.5 1.3%	110,663.8

## SCHEDULE VARIANCE

**Description and Cause:** The CM and CTD unfavorable variances are within the threshold of  $\pm 10$  percent or \$1M. The PTD unfavorable schedule variance is because of delayed 222-S Laboratory upgrades due to change in operational priorities.

**Impact:** Continued degradation of facilities/equipment will occur until upgrades are completed.

**Corrective Action:** Behind schedule laboratory upgrades will be performed subject to funding availability and operational necessity.

## COST VARIANCE

**Description and Cause:** The CM unfavorable variance is due to unplanned ATL Readiness to Serve costs. The CTD and PTD favorable variances are due to 1) less than planned dedicated and matrixed staff in support of corrective maintenance, Facility Operations, and Integration Support; 2) planning labor rates were greater than actual

costs; 3) redeployment of Analytical Process Development staff to support vapor analysis and other analytical methods development scope; and 4) planned shipments of waste for processing have been less than planned due to actual analytical production. The CTD favorable variance is partially offset by unplanned ATL Readiness to Serve costs. Additionally, PTD unplanned costs have been incurred relative to the transition of the 222-S Laboratory analysis activities to ATL. Specific costs include ATL transition costs, Information Resource Management Desktop support, and Waste Management of laboratory samples. These costs have been offset by favorable variances elsewhere in the ATS program.

**Impact:** A negative variance will be realized until budget is incorporated to the life-cycle baseline through the approval and implementation of BCR RPP-07-006.

**Corrective Action:** BCR RPP-07-006 is being processed to add the ATL Readiness to Serve work scope to the life-cycle baseline.



**Milestone M-45,-50,-60 Single-Shell Tank Corrective Action****I. Near-Term Deliverables:**

- **M-45-55-T03, Submit to Ecology for review and comment as an Agreement secondary document a Field Investigation Report pursuant to the site-specific SST WMA Phase I RFI/CMS Work Plan addenda for WMA T, TX, and TY.**  
Due: 07/30/05  
Status: Complete. Delivered on 07/29/05. Ecology comments were received on 01/05/06. Responses have been provided to Ecology.
- **M-45-55-T04, Submit to Ecology for review and comment a draft of the A-AX, C, and U Field Investigation Report.**  
Due: 04/30/06  
Status: Missed. Discussions between Ecology and ORP are ongoing regarding scope and schedule for this report. A draft TPA change request, letter 06-TPD-026, was provided to Ecology on May 4, 2006. Ecology, ORP and CH2M HILL met November 1, 2006 to discuss change package approach.
- **M-45-55, Submit to Ecology for review and approval as an Agreement primary document a Phase 1 RFI report integrating results of data gathering activities and evaluations for WMAs S-SX, T, TX-TY, A-AX, B-BX-BY, C, and U; and related activities, including groundwater monitoring and impacts assessment using Hanford Site groundwater models, with conclusions and recommendations.**  
Due: 01/31/07  
Status: Missed-Change Request Pending. C Farm direct push characterization near the C-152 pipeline leak was completed June 9, 2006. 15 samples were pulled and sent for analysis. Push sampling was completed at T Farm. Push sampling equipment was moved into B Farm and sampling was completed in January 2007. SGE activities began in August 2006 in U Farm and C Farm. SGE activities began in October 2006 for B/BX/BY Farms.  
  
A draft TPA change request, letter 06-TPD-026, was provided to Ecology on May 4, 2006. Ecology, ORP, and CH2M HILL met November 1, 2006 to discuss change package approach.
- **M-45-56, Complete Implementation of Agreed to Interim Measures.**  
Due: TBD  
Status: Completed. ORP and Ecology met on 09/05/06.
- **M-45-58, Submit to Ecology for review and approval as an Agreement primary document a RCRA Corrective Actions Corrective Measures Study for WMAs S-SX, T-TX-TY, B-BX-BY, A-AX, C, and U.**

Due: 06/30/07

Status: At Risk. A draft TPA change request, letter 06-TPD-026, was provided to Ecology on May 4, 2006. Ecology, ORP, and CH2M HILL met November 1, 2006 to discuss change package approach.

- **M-45-60, Submit to Ecology for review and approval as an Agreement primary document DOE's RCRA Corrective Actions Work Plan for SST WMAs.**

Due: 09/30/07

Status: At Risk. A draft TPA change request, letter 06-TPD-026, was provided to Ecology on May 4, 2006. Ecology, ORP, and CH2M HILL met November 1, 2006 to discuss change package approach.

## **II. Significant Accomplishments:**

- Hydraulic hammer direct push system was successfully deployed around tank 241-T-101, geophysical logs were run and samples collected and submitted for analysis.
- Hydraulic hammer direct push system was successfully deployed in the 241-B farm around the diversion boxes, geophysical logs were run and samples collected and submitted for analysis.
- A report, Surface Geophysical Exploration of the U Tank Farm at the Hanford Site, RPP-RPT-31557, was released through Document Control.
- Surface Geophysical Exploration of B, BX, and BY tank farms as well as surrounding liquid disposal sites was initiated on 10/23/06. This represents the first fully integrated deployment of the technology between the Tank Farm waste management area and the adjacent central plateau waste sites. Data collection is approximately 50 percent complete.

## **III. Significant Planned Actions in the Next Six Months:**

- Initiate design/construction activities for interim surface barriers at T-106.
- SGE work in B/BX/BY WMA.
- Develop initial U FIR sections for internal review.
- Develop initial sections of role-up RFI for internal review.
- Complete analysis of SGE data collected in the 241- C Farm.
- Initiate decommissioning of borehole C4297 in the 241-C Farm.
- Initiate direct push work in the 241-U Farm.

## **IV. Issues**

- A draft change package for M045-55-T-04, 55, 58, and 60 has been submitted to Ecology. Ecology, ORP, and CH2M HILL met November 1, 2006 to discuss change package approach.

**Milestone M-45-00, Complete Closure of All Single-Shell Tank Farms****SST Retrieval and Closure Program****I. Deliverables****o M-45-00, Complete Closure of all Single-Shell Tank Farms**

Due: 9/30/24

Status: At risk

**o M-45-00B, Complete Specified "Near-Term" SST Waste Retrieval and Interim Closure Activities, to Result in the Retrieval of all Tank Wastes in WMA-C SSTs Pursuant to the Agreement Criteria in Milestone M-45-00**

Due: 9/30/06 (Or as otherwise indicated within the descriptive text of this milestone.)

Status: Missed.

- Completion of four limits of technology retrieval demonstrations:
  - Saltcake dissolution (S-112): Completed (M-45-03C)
  - Modified sluicing (C-106): Completed
  - Vacuum retrieval (C-200s): Completed; C-203 field retrieval operations completed on 3/24/05; C-202 retrieval completed on 8/11/05; C-201 retrieval completed on 3/23/06; C-204 retrieval completed on 12/11/06.
  - Mobile retrieval (C-101, C-105, C-110, or C-111): C-101 start of retrieval is currently projected for fiscal year 2011 (October 2010).
- Implementation of full-scale LDMM technologies for the first three 100-series tank retrievals following Tank S-112:
  - Tank S-102: High Resolution Resistivity (HRR) system installed; supporting retrieval operations.
  - Tank C-103: HRR system demonstration complete.
  - Tank C-108: HRR system installed; supporting retrieval operations.
  - Completed HRR demonstration at S-102.
  - Submitted HRR evaluation report and recommendation for further deployment.
- Submittal of TWRWPs:
  - Tanks C-201, C-202, C-203, and C-204: Completed on 4/8/04
  - Two (2) 100-series tanks by 7/31/04: Completed on 7/29/04 (C-103 and C-109)
  - Four (4) 100-series tanks by 10/31/04: Completed on 10/8/04 (C-102, C-104, C-107, C-108, and C-112).
  - Five (5) 100-series tanks by 1/31/05: Completed on 1/24/05 (C-101, C-105, C-110, and C-111).

- Submittal of Waste Management Area (WMA) integration plans by 6/30/05:
  - WMA C: Completed; submitted from ORP to Ecology on 6/22/05
  - WMA T: Completed; submitted from ORP to Ecology on 6/22/05.
- **M-45-00C, Initiate Negotiation of SST Waste Retrieval and Closure Activities and Associated Schedules (for the Period February 2007 through August 2008)**  
Due: 9/30/06  
Status: Missed
- **M-45-00D, Initiate Negotiation of the SST Waste Retrieval and Closure Activities (for the Period September 2008 to September 2013)**  
Due: 1/31/08  
Status: On schedule
- **M-45-00E, Initiate Negotiation of SST Waste Retrieval and Closure Activities for the Remainder of the SST Program**  
Due: 10/31/12  
Status: On schedule
- **M-45-05, Retrieve Waste from all Remaining Single-Shell Tanks**  
Due: 9/30/18  
Status: At risk
- **M-45-05-T05, Initiate Tank Retrieval from Five Additional Single-Shell Tanks**  
Due: 9/30/07  
Status: Unrecoverable
- **M-45-05-T06, Initiate Tank Retrieval from Five Additional Single-Shell Tanks**  
Due: 9/30/08  
Status: At risk
- **M-45-05-T07, Initiate Tank Retrieval from Seven Additional Single-Shell Tanks**  
Due: 9/30/09  
Status: At risk
- **M-45-05-T08, Initiate Tank Retrieval from Eight Additional Single-Shell Tanks**  
Due: 9/30/10  
Status: At risk
- **M-45-05-T09, Initiate Tank Retrieval from Ten Additional Single-Shell Tanks**

Due: 9/30/11  
Status: At risk

- **M-45-05-T10, Initiate Tank Retrieval from 12 Additional Single-Shell Tanks**  
Due: 9/30/12  
Status: At risk
- **M-45-05-T11, Initiate Tank Retrieval from 14 Additional Single-Shell Tanks**  
Due: 9/30/13  
Status: At risk
- **M-45-05-T12, Initiate Tank Retrieval from 17 Additional Single-Shell Tanks**  
Due: 9/30/14  
Status: At risk
- **M-45-05-T13, Initiate Tank Retrieval from 20 Additional Single-Shell Tanks**  
Due: 9/30/15  
Status: At risk
- **M-45-05-T14, Initiate Tank Retrieval from 20 Additional Single-Shell Tanks**  
Due: 9/30/16  
Status: At risk
- **M-45-05-T15, Initiate Tank Retrieval from 20 Additional Single-Shell Tanks**  
Due: 9/30/17  
Status: At risk
- **M-45-06, Complete Closure of all Single-Shell Tank Farms in Accordance with Approved Closure/Post Closure Plan(s)**  
Due: 9/30/24  
Status: At risk
- **M-45-06-T03, Initiate Closure Actions on a WMA Basis**  
Due: 3/31/12  
Status: At risk
- **M-45-06-T04, Complete Closure Actions on one WMA**  
Due: 3/31/14  
Status: At risk

## **II. Significant Accomplishments**

- Completed C-204 retrieval.

- Completed construction of C-108 retrieval system, and initiated retrieval operations.
- Initiated construction of C-109 retrieval system.

### **III. Significant Planned Activities in the Next Six Months**

- Reach resolution on missed M-45-00B and M45-00C milestones.
- Work with Ecology, EPA, and DOE-RL to develop Retrieval Team recommendation on retrieval and closure activities.
- Complete C-108 retrieval.
- Complete design for C-109 retrieval system, and construction activities.
- Obtain Ecology approval of Mobile Retrieval System (MRS) TWRWP.
- Complete RDR for C-204 and C-103 and transmit to Ecology.
- Complete interim lay-up of C-200 retrieval system.
- Initiate design work for the C-104 retrieval system.

### **IV. Issues**

- The MRS TWRWP (for tanks C-101/105/110/111) has not been approved by Ecology. Ecology and ORP worked on multiple document review and comment cycles but could not reach agreement on final content. Ecology and ORP agreed that ORP should resubmit updated TWRWP and start a new TPA primary document review process. ORP submitted revised TWRWP to Ecology in December 2006, Ecology responded with formal comments in January 2007; comment resolution is ongoing.
- M-45-00B commitment to retrieve all C-Farm tanks by September 2006 was missed. ORP, Ecology, and EPA chartered the Tank Retrieval and Storage Team to explore SST retrieval assumptions and alternatives and to develop a proposed path forward for senior management consideration. The options for a path forward were presented to management on October 17, 2006. Ecology and EPA are considering those options.

**C-FARM RETRIEVAL SUMMARY SCHEDULE FORECASTS**

Tank	Final Design Drawings complete	Construction Complete	Process Control Plan Complete	Start Retrieval	Complete Retrieval	TSAP Complete	Retrieval Data Report or Appendix H to Ecology/EPA
C-101	7/2/09	8/5/10	9/1/10	10/1/10	1/6/12	12/6/11	9/27/12
C-102	1/14/11	10/13/11	12/9/12	1/9/12	11/20/12	10/20/12	11/18/13
C-103	Complete	Complete	Complete	Complete	Complete	Complete	8/7/07
C-104	12/7/11	9/7/12	10/21/12	11/21/12	8/29/13	7/29/13	1/6/15
C-105	5/2/12	6/5/13	7/30/13	8/30/13	3/6/14	2/6/14	12/4/14
C-106	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-107	3/21/14	12/19/14	2/26/15	3/26/15	12/18/15	11/18/15	4/26/17
C-108	Complete	Complete	Complete	Complete	5/16/07	4/16/07	3/23/09
C-109	4/2/07	9/12/07	9/24/07	10/24/07	5/7/08	4/7/08	11/10/09
C-110	10/29/12	12/3/13	2/7/14	3/7/14	10/8/14	9/8/14	5/26/15
C-111	8/18/14	9/21/15	11/21/15	12/21/15	4/28/16	3/28/16	1/31/17
C-112	10/18/13	7/23/14	9/9/14	10/9/14	3/25/15	2/25/15	3/1/17
C-201	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-202	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-203	Complete	Complete	Complete	Complete	Complete	Complete	Complete
C-204	Complete	Complete	Complete	Complete	Complete	Complete	10/24/07

NOTE: Completion dates are based on the Interim Baseline as of 12/30/06 and are subject to change as efforts continue to identify and implement schedule efficiencies.



## SST RETRIEVAL SEQUENCE DOCUMENT

### I. Deliverables

- **M-45-02M, Submit Biennial Updates to SST Retrieval Sequence Document (Agreement Appendix I, Section 2.1.2), Double-Shell Tank Space Evaluation Document and Ecology Concurrence of Additional Tank Acquisition Within 60-days**  
Due: 3/1/06 (Parties to meet annually to agree on SSTs to be retrieved during the coming year from the tank pool.)  
Status: Complete. RPP-21216 Rev. 1B, Single-Shell Tank Retrieval Sequence Document and Double-Shell Tank Evaluation Document, delivered to Ecology on March 13, 2006 (see "Issues" below).
- **M-45-02N, Submit Biennial Update of SST Retrieval Sequence Document (Agreement Appendix I, Section 2.1.2), and Double-Shell Tank Space Evaluation Document and Ecology Concurrence of Additional Tank Acquisition Within 60-days (See Text of M-45-02M for further details)**  
Due: 3/1/08 (Parties to meet annually to agree on SSTs to be retrieved during the coming year from the tank pool.)  
Status: On schedule
- **M-45-02O, Submit Biennial Update of SST Retrieval Sequence Document (Agreement Appendix I, Section 2.1.2), and Double-Shell Tank Space Evaluation Document and Ecology Concurrence of Additional Tank Acquisition Within 60-days (See Text of M-45-02M for further details)**  
Due: 3/1/10 (Parties to meet annually to agree on SSTs to be retrieved during the coming year from the tank pool.)  
Status: On schedule
- **M-45-02P, Submit Biennial Update of SST Retrieval Sequence Document (Agreement Appendix I, Section 2.1.2), and Double-Shell Tank Space Evaluation Document and Ecology Concurrence of Additional Tank Acquisition Within 60-days (See Text of M-45-02M for further details)**  
Due: 3/1/12 (Biennially thereafter. Parties to meet annually to agree on SSTs to be retrieved during the coming year from the tank pool.)  
Status: On schedule

### II. Significant Accomplishments

- Meetings were held between ORP, CH2M HILL, and Ecology to agree on proposed revisions to the SST Retrieval Sequence Document and Double-Shell Tank Evaluation Document.
- Revised and resubmitted SST Retrieval Sequence Document December 22, 2006 to address identified issues.

**III. Significant Planned Activities in the Next Six Months**

- None

**IV. Issues**

- The Single-Shell Tank Retrieval Sequence Document and Double-Shell Tank Evaluation Document has not been approved by Ecology. Ecology provided ORP a notice of deficiency (NOD) on the document submitted to meet the M-45-02M milestone (Ecology letter dated May 25, 2006). ORP response (letter dated June 2, 2006) did not concur with all stated deficiencies but committed to work with Ecology to resolve issues, provide requested information, and submit an updated document by August 31, 2006, if necessary. ORP update letter (ORP letter dated August 31, 2006) requested extension for submittal of update to 30 days after HFFACO Executive Committee agrees to Retrieval Team recommendation. Ecology response letter, dated November 8, 2006, granted an extension until December 24, 2006. Revised document submitted December 22, 2006.

**TANK RETRIEVALS WITH INDIVIDUAL MILESTONES****Tank 241-C-106****I. Deliverables**

- **M-45-05H, Interim Completion of Tank C-106 SST Waste Retrieval and Closure Demonstration Project**  
Due: 6/30/04  
Status: Completed
- **M-45-05L-T01, Complete Full-Scale C-106 Waste Retrieval**  
Due: 11/1/03  
Status: Completed
- **M-45-05M-T01, Submit C-106 Waste Retrieval Results, Analysis of Residual Waste(s), and (if appropriate) Request for Exception to the Criteria Pursuant to Agreement Appendix H**  
Due: 2/27/04  
Status: Completed

**II. Significant Accomplishments**

- None

**III. Significant Planned Activities in the Next Six Months**

- Complete revisions to C-106 Appendix H documentation, incorporating Ecology and NRC comments and reflecting the Single-Shell Tank Performance Assessment (SST PA).
- Submit C-106 revisions to NRC to complete their review of the C-106 exception request.

- Work with Ecology and EPA to obtain approval of C-106 Appendix H exception request.
- Work with Ecology and EPA to develop tank leak loss volume evaluation process.
- Work with Ecology and EPA to resolve comments on the SST PA.

#### **IV. Issues**

- C-106 Closure Plan approval and SST Categorical Notice of Construction Phase 3 (closure) are pending completion of the Tank Closure and Waste Management Environmental Impact Statement and associated Record of Decision (ROD); forecast completion for the final EIS is June 2008.

### **Tank 241-S-102**

#### **I. Deliverables**

- **M-45-05C, Complete S-102 Initial Waste Retrieval Project Construction (to Include all Physical Systems Including Those Necessary for Leak Detection, Monitoring, and Mitigation)**  
Due: 3/31/04  
Status: Completed
- **M-45-06C, Submit a Certified S-102 Component Closure Activity Plan, as an Application for a Modification to the Hanford Site-Wide Hazardous Waste Facility Permit to Ecology**  
Due: 9/30/04  
Status: Completed
- **M-45-05A, Complete Waste Retrieval from Tank S-102**  
Due: 3/31/07  
Status: At risk.
- **M-45-15, Interim Completion of Tank S-102 SST Waste Retrieval and Closure Demonstration Project**  
Due: 12/31/07  
Status: At risk.

#### **II. Significant Accomplishments**

- Resumed S-102 retrieval with a high pressure mixer ("Rotary Viper"). Tank is approximately 70% retrieved.

#### **III. Significant Planned Activities in the Next Six Months**

- Retrieve until SY-102 is at full capacity, perform a cross-site transfer and then resume operations.
- Install two more additional high-pressure mixers (i.e., Rotary Vipers)
- Continue development and testing of new retrieval technologies.

#### **IV. Issues**

- Ecology letter (dated August 3, 2006) requested ORP provide recovery

plan for Milestone M-45-05A by August 31, 2006. ORP response (letter dated August 29, 2006) committed to provide recovery plan by November 1, 2006, to allow for completion of ongoing technology evaluation. Retrieval completion plan letter was transmitted to Ecology on November 1, 2006.

### **Tank 241-S-112**

#### **I. Deliverables**

- **M-45-06B, Submit a Certified S-112 Component Closure Activity Plan, as an Application for a Modification to the Hanford Site-Wide Hazardous Waste Facility Permit to Ecology**  
Due: 9/30/04  
Status: Completed.
- **M-45-03C, Complete Full-Scale Saltcake Waste Retrieval Technology Demonstration at Single-Shell Tank S-112**  
Due: 6/30/05  
Status: Completed.
- **M-45-13, Interim Completion of Tank S-112 SST Waste Retrieval and Closure Demonstration Project**  
Due: 12/31/07  
Status: On schedule.

#### **II. Significant Accomplishments**

- Retrieval activities were secured when the retrieval efficiency dropped below un-sustainable levels.
- Performed in-tank video to support volume estimation.

#### **III. Significant Planned Activities in the Next Six Months**

- Resume retrieval to meet TPA volume goals.

#### **IV. Issues**

- S-112 retrieval is not yet complete.

**Interim Stabilization Consent Decree****I. Near-Term Deliverables:**

- **D-001-00, Complete Interim Stabilization of all 29 SSTs**

Due: 09/30/04

Status: Completed on 03/18/04 with discontinuation of pumping in U-108 and subsequent consultation with Ecology staff. Interim stabilization of S-102 and S-112 held in abeyance by third amendment to the Consent Decree; these two tanks are undergoing retrieval. ORP's obligation to interim stabilize S-102 and S-112 will be satisfied upon completion of retrieval operations.

**II. Significant Accomplishments:**

- None

**III. Significant Planned Actions in the Next 6 Months:**

- None.

**IV. Issues**

- Tank S-102 retrieval is being pursued aggressively but may not be completed by milestone M-45-05A date of March 31, 2007.

**Milestone M-23-00, Tank Integrity and Monitoring****I. Near-Term Deliverables:**

- None.

**II. Significant Accomplishments:**

- Completed video observation and liquid level assessment for all facilities (241-AX-IX, 241-AX-151, 241-BY-ITS-1, 241-BY-ITS-2)

**III. Significant Planned Actions in the Next Six Months:**

- Transmit final report to Ecology

**IV. Issues**

- Nothing to report.

## In Tank Characterization and Summary

For the period from December 1 - December 31, 2006

### I. Accomplishments:

- Completed the SST Closure DQO, RPP-23403, Rev. 3, *Single-Shell Tank Component Closure Data Quality Objective*, on December 13, 2006.
- Completed 241-AW-102 Evaporator TSAP, *Tank Grab Sampling and Analysis Plan in Support of Evaporator Campaigns for Fiscal Year 2007*, RPP-PLAN-31719, Rev. 0, on January 2, 2007
- Completed the Corrosion Probe DQO, RPP-SPEC-28275, Rev. 0, *Corrosion Probe Data Quality Objectives*, on January 19, 2007.
- Completed 241-SY-102 grab sampling on January 4, 2007.
- Completed 241-AW-102 grab sampling on January 8, 2007.
- Completed 241-C-204 solid closure sampling January 22, 2007.

### II. Planned Action within the next Six Months:

#### Tank Sampling

- Leak detection pit 241-SY-103C grab samples scheduled for February 2007.
- Tank 241-S-112 solid closure samples scheduled for March 2007.
- Tank 241-AW-102 liquid evaporator samples scheduled for January 2007.
- Tank 241-AY-101 core corrosion samples scheduled for completion March 2007.
- Tank 241-SY-103 core corrosion samples scheduled for January 2007.
- Tank 241-AP-102 liquid corrosion samples scheduled for February 2007.
- Tank 241-SY-102 liquid grab samples scheduled for April 2007
- Tank 241-SY-101 core corrosion samples scheduled for April 2007.
- Tank 241-S-102 liquid grab samples scheduled for April 2007.
- Tank 241-AP-107 liquid evaporator samples scheduled for June 2007.
- Tank 241-C-108 liquid closure samples scheduled for July 2007.
- Tank 241-AN-106 liquid grab samples scheduled for July 2007.

#### BBI Updates

- A total of 15 BBI updates were completed for the first quarter of FY2007. These updates were published January 19, 2007. In addition, a global change for 79SE and 126S was made. Fourteen updates are scheduled for the second quarter of FY2007.

#### DQO s



- Complete Evaporator DQO, Rev. 5 in June 2007.
- Complete Compatibility DQO, Rev. 12 in March 2007.
- Start DBVS DQO Rev. 1 in April 2007.

### **III. Issues:**

- None.

## **Milestone M-47-00, Complete Work Necessary to Support Acquisition and Phase I Operations of Hanford Site High-Level Radioactive Waste Treatment, Storage, and Disposal Facilities**

### **I. Near-Term Deliverables:**

- **M-47-02, Complete startup and turnover activities for required transfer system upgrades to allow transfer of first high-level waste feed to the Pretreatment/Treatment Complex.**  
Due: 03/31/09  
Status: Complete. ORP completion letter submitted to WDOE June 28, 2006, (06-TPD-043). Ecology formally advised ORP on 08/24/06 that this Fall, they will conduct an inspection of records to verify completion of the milestones.
- **M-47-04, Complete startup and turnover activities for required transfer system upgrades to allow transfer of first low-activity waste feed to the pretreatment/treatment complex. Installation of the pump will not be required until necessary to support WTP waste feed activities.**  
Due: 03/31/09  
Status: Complete. ORP completion letter submitted to WDOE June 28, 2006 (06-TPD-043). Ecology formally advised ORP on 08/24/06 that this Fall, they will conduct an inspection of records to verify completion of the milestones.
- **M-47-03A, Complete startup and turnover activities for waste retrieval and mobilization systems for selected initial high-level waste feed tank.**  
Due: 03/31/09  
Status: Pending path forward with Ecology for renegotiation of new milestone commitments.
- **M-47-06, Complete negotiation of additional agreement requirements (milestones, target dates, and associated language) governing work necessary to support completion of treatment complex Phase I operations by 2018.**  
Due: 06/30/10  
Status: Negotiations are not yet underway.

### **II. Significant Accomplishments:**

- None

### **III. Significant Planned Actions in the Next Six Months:**

- None.

**IV. Near-term Actions Needed by DOE or Ecology:**

- Ecology concurrence that TPA Milestones M-47-02 and M-47-04 are complete (06-TPD-043).

**V. Issues:**

- Nothing to report.

**242-A Evaporator Status (previously reported under Milestone M-62, which has been closed out).**

**EVAPORATOR CAMPAIGNS**

Fiscal Year	Campaign No.	Feed Source	Slurry Tank	Comments
FY07	07-01 (07-02)	AN-106/AY-102 (AW-102)	AP-102 or AP-103	AN-106 and AY-102 candidate feed staged and sampled in AW-102.
FY08	08-01	AP-104	AP-104	
FY08	08-02 (09-01)	AP-105 or AP-107	AP-104	Planning underway to accelerate campaign 09-01 into FY08 and be performed as 08-02 back-to-back with 08-01.
FY09	09-01 (09-02)	AP-105 or AP-107	AP-105 or AP-107	If 09-01 is accelerated into FY08 (and performed as 08-02), then campaign 09-02 will become campaign 09-01.

**Milestone M-48-00, DST Integrity Assessment Program****I. Deliverables:**

- **M-48-14, Submit Written Integrity Report for the DST System**  
Due: 3/31/06  
Status: Complete.
- **M-48-15, Submit a Report to Ecology for the Re-examination of Six DSTs by Ultrasonic Testing**  
Due: 9/30/07  
Status: On schedule.
- **M-48-00, Complete Tank Integrity Assessment Activities for Hanford Double Shell Tanks System**  
Due: 9/30/07  
Status: On schedule.
- **M-48-07, Submit To Ecology a Disposition Plan for All DST Components Not In Use Post 2005.**  
Due: 12/16/2000  
Status: Complete.
- **M-48-07b, (Embedded milestone) Isolation, Stabilization and Monitoring (i.e., administrative and/or engineering controls in place to prevent use within twelve (12) months, or sooner, from the date of removal from service.**  
Due: 06/30/2006  
Status: Complete. ORP letter 06-TPD-042 transmitted to Ecology on June 27, 2006.
- **M-48-07A, Complete Construction of the AZ-301 Condensate Return System and Pit Upgrades. This includes construction of the AZ-301 condensate return, removal of AZ-151 catch tank from service, construction of the AP-106A central pump pit upgrades, and construction of the SY-B valve pit upgrade (milestones M-48-07A-A, M-48-07A-B & M-48-07A-C).**  
Due: 06/30/06  
Status: Complete. ORP letter 06-TPD-041 transmitted to Ecology on June 28, 2006.
- **M-48-07A-A, Complete Construction of the AZ-301 Condensate Return System and Pit Upgrades Remove the AZ-151 Catch Tank System from Service.**  
Due: 10/31/05 for AZ-301 Condensate Return system and removal of  
Status: Complete

- **M-48-07A-B, Complete construction of the AZ-301 condensate return system and pit upgrades. This includes: 2) Completion of construction for the 241-AP-106A Central Pump Pit upgrade (remove existing equipment, evaluate pit integrity, and replace pit coating (if necessary) by March 31, 2006.**  
Due: 3/31/06 AP-106A Central Pump Pit Upgrade (Evaluate integrity of pit and replace pit coating if necessary).  
Status: Complete. ORP letter 06-ED-033, transmitted to Ecology on April 4, 2006.
- **M-48-07A-C, Complete construction of the AZ-301 condensate return system and pit upgrades. This includes: 3) Completion of construction for the 241-SY-B Central Pump Pit upgrade (remove existing equipment, evaluate pit integrity, and replace pit coating (if necessary) by June 30, 2006.**  
  
Due: 6/30/06 for complete construction for the 241-SY-B Valve Pit Upgrade (Evaluate integrity of pit and replace pit coating if necessary).  
Status: Complete. ORP letter 06-TPD-041 transmitted to Ecology on June 28, 2006.

## **II. Significant Accomplishments:**

- Completed the AY-101 annulus video
- Completed the AW-103 Examination Report

## **III. Significant Planned Actions in the Next Six Months:**

- Complete the AY-101 and AN-106 UT examinations
- Complete the AN-107, AW-103, and AY-101 primary videos
- Complete the AN-106 and AZ-101 annulus videos
- Complete the AW-02A encasement valve repair and pressure testing

## **IV. Issues**

- None.

**Milestone M-90-00, Complete Acquisition of New Facilities, Modifications of Existing facilities, and/or Modifications of Planned Facilities, as Necessary for Storage of Hanford Site Immobilized High Level Waste (IHLW), Immobilized Low Activity Waste (ILAW), and Disposal of ILAW, and M-20-00, Submit Part B Permit Applications.**

**I. Near-Term Deliverables:**

- **M-20-56, Submit Canister Storage Facility Part B Permit Application**  
Due: 6/30/03  
Status: **Complete.**
- **M-20-57, Submit ILAW Disposal Facility Certified Part B Permit Application to Ecology**  
Due: 6/30/03  
Status: **Complete.**
- **M-90-09-T01, Complete Detailed Design of ILAW Disposal Facility Critical Systems to 80%**  
Due: 5/30/03  
Status: **Complete.**
- **M-90-08, Initiate ILAW Disposal Facility Construction**  
Due: 2/28/05  
Status: **Complete.**

**Out year (Post 2006) milestones:**

- **M-90-10, Ready To Accept Placement of ILAW Waste in ILAW Disposal Facility.**  
Due: 8/31/08  
Status: **Closed.**
- **M-90-11, Complete Canister Storage Facility Construction**  
Due: 8/31/10  
Status: To be renegotiated to align with WTP schedule.

**II. Significant Accomplishments:**

- Submitted IDF Permit Modification Incorporating As Built Design Media to Ecology – December 2006.
- Submitted to Ecology the ILAW Waste Form Technical Requirements Document (ITWRD), Glass formulations – December 2006.
- Ecology submitted Notice of IDF Permit Modification for Custodial Care Phase Requirements for Public Comment – January 2007.

**III. Significant Planned Actions in the Next Six Months:**

- Plant sagebrush on the Hanford Site as called for in Mitigation Action Plan – January 2007.
- Ecology will develop an Agency Initiated modification of the IDF Permit for Custodial Care Phase Requirements – February 2007.

**IV. Issues**

- None.

## **Hanford Waste Treatment and Immobilization Plant (WTP) Project**

### **Pretreatment (PT) Facility**

The PT Facility will separate the radioactive tank waste into High Level Waste (HLW) and Low Activity Waste (LAW) fractions and transfer each waste type to the respective vitrification facility for immobilization. Facility construction began November 2002 and the May 2006 Estimate at Completion (EAC) lists a construction completion date of October 2014. Currently the design is 63% complete and construction is 24% complete.

The primary focus for the Pretreatment facility during this quarter has continued to be on resolving issues associated with External Flow-sheet Review Team (EFRT) findings and on re-planning work to move the schedule for the Low Activity Waste facility ahead by a year.

Engineering has been working to revise their schedule to accommodate the changes that have resulted for the Pretreatment facility. They are also factoring in the impact of the EFRT issue resolutions which were included in the May 2006 estimate at construction as below the line additions and some capacity increase activities. These activities have resulted in deferral of engineering schedule activities for PT.

Civil/Structural engineering continues to work on the concrete walls and slabs and structural steel above the 56' elevation. The Civil/Structural group has taken advantage of windows of opportunity for work on PT concrete and structural steel design when the engineers have not been required to work on higher priority work. During these periods they have completed the calculations for most of the 56 foot elevation slab and are making good progress on the 56 foot to 77 foot elevation walls. BNI was able also to complete structural steel design up through the 77 foot elevation.

Mechanical Systems and Plant Design continue checking the design for piping and pipe supports that had been released for fabrication prior to the seismic design criteria change. They have also nearly completed the consolidation of the requirement changes that will impact vessels and piping systems as a result of the EFTR and Hydrogen in Piping and Ancillary Vessels (HPAV) issues. Around thirty Mechanical Systems engineers have been dedicated to the support of the Issue Response Plans (IRP) associated with the EFRT comments. Since many of the EFRT issues involve the PT facility it is critical that these issues be resolved as quickly as possible so that engineering activities can resume with confidence that there is a sound technical basis for the design. Hydrogen in Piping and Ancillary Vessels (HPAV) issues have been resolved except for the longitudinal loads that result from a hydrogen detonation within the piping system. These loads are being assessed with the assistance of a consultant and significant increases the loading on vessel nozzles has been found in several vessels and efforts to determine how to best handle these increased loads are underway.



In September BNI recommended that the baseline cesium ion exchange resin be changed from Superlig 644 to spherical resorcinol formaldehyde (RF). ORP requested that BNI provide additional supporting documentation for the recommendation. BNI completed the basis for establishing that RF is equivalent to or better than Superlig 644 and DOE approved RF as equivalent to Superlig 644 and directed BNI, as design authority, to document the basis for which ever resin they select for use in the Cs ion exchange system based upon cost, schedule, and technical considerations. Since that approval, BNI has been moving forward with redesign of the Cs ion exchange system based upon RF resin.

The original design included three jib cranes in the hot cell maintenance area. These cranes were to be designed for remote removal in order to facilitate maintenance. The crane vendor did not include this feature as required and the EFRT expressed concern that the availability of the hot cell crane. These two factors led to a decision to add an additional bridge crane for the maintenance area and eliminate the jib cranes which resolves both issues.

Construction was suspended in December 2005 with minor exceptions. The permanent stairways have been installed up to the 56 foot elevation.

Commodity	Installed during this period	Installed to date	Percentage installed to date
Concrete	0	77.13	68.76%
Structural Steel	9	3,003.00	18.31%
Pipe	1	36.95	7.01%
Cable Tray	0	0.34	0.94%
Conduit	0	17.13	8.64%
Cable & Wire	0	0.00	0.00%

Facility	Milestone	Scheduled	Projected
PT	Complete Civil/Structural calculations for 56' elevation, Column lines 8-17.	11/06	1/07A
	Complete PJM Multiple Overblow Test	3/07	5/07
	Receive Oxidative Leaching Test Draft Report	5/07	8/07

**High-Level Waste Vitrification Facility:**

The WTP project had developed a rebaseline based on significant review of the scope and cost estimate in May 2006. Since then the WTP project has done another rebaselining to incorporate the resequencing priority to complete LAW ahead of PT and HLW facility in October 2006. Based on the resequenced baseline, the design priority of the HLW has been to complete sufficient concrete and piping design to create significant backlog for procurement and construction. In addition, in light of the restriction in funding in the construction of RGM related elements, the project is evaluating to expedite future-year procurements to offset spending shortfall against the funding level for 2007. Schedule performance has been behind the baseline schedule due to staffing shortfall and some rework of past designs.

Construction on the HLW Facility has been suspended since January 2006 to allow analysis of the structures, systems, and components to perform the redesign incorporating the revised ground motion criteria, which increased the magnitude of the design earthquake by 40%. The only ongoing construction activity has been the application of special protective coatings for Concrete slab and walls at el. (-) 21'-0". Based on Congressional language, the construction for HLW and PT can only be started once the certification of the final seismic criteria is obtained from the Secretary of Energy. The confirmation of the RGM will be demonstrated when the soil characterization from the recently collected borehole data is analyzed. This is anticipated to be completed in May 2007. Preliminary data from some of the wave velocity test have been positive.

No changes are required to the design of the facility below the 0-ft level. Analysis shows that upper levels of the facility require structural modifications due to the increased earthquake induced motions.

Revision of the dynamic analysis of the HLW facility to incorporate the stiffened roof steel structures to reduce the high seismic accelerations resulted from the previous analysis with the Revised Ground Motion (RGM) has been completed in December 2006. Re-design of concrete slabs at 0'-0" has been completed. Walls from 0'-0" to 14'-0" are being redesigned to incorporate RGM. BNI has issued 14 floor framing drawings for el. 14'-0" incorporating RGM. The redesign required 53 beams (~ 6%) to be replaced with larger beam sections. However, BNI modified the design approach to composite beam/slab design to mitigate majority of the changes needed. NCR hold on the steel framing at el. -21' due to RGM, has been released based on the completion of reanalysis for the RGM.

Redesign of the "Joggles" for 0' – 14', using the newly developed design criteria and desk Instructions to resolve the technical issues identified earlier in 2006, will be completed in April 2007. This is required to finalize the wall designs and issue the drawings for construction.

All the P&ID drawings for HLW (except the ASX system) have been issued as committed system design packages. Engineering review of the equipment layout drawing for elevation 58' has been completed. Piping for Instrument Service Air (ISA) system for the Planning area 11 (corridor at 0' elevation) has been issued. Out of 20,000 ft piping affected by the RGM, 12,000 ft has been reanalyzed.

Wall Module Nozzle locations have been verified to conform to the vendor drawing. This allows the re-start of the verification of the suspended work on HFP, HOP, and PVV around melters 1 and 2. Fabrication drawings and procurement specification for HLW canisters have been issued.

Wet Electrostatic Precipitators (WESP), 480 V Load centers, and 15 pieces of equipment related to remote HLW Canister decon swabbing system have been received at site. Canister decon swabbing equipment includes robotic manipulator, canister turntable and swabbing tools. The engineering and fabrication of 8 shield doors had to be transferred to the new vendor, the Oregon Iron works, to complete the unfinished activities of the Unidynamics corp, who declared bankruptcy in 2006. Implementation of the Corrective Actions required for the Commercial Grade Dedication (CGD) concerns would delay the procurement of the canister lid welder and Thermal Catalytic Oxidizer (TCO).

DOE has approved an Authorization Basis Change to accept the changes to the design criteria for piping and pipe support to close a Condition of Acceptance (COA) that was placed on BNI, since the criteria did not appear to meet the ASME B31.3 requirements.

ORP has submitted formal comments to the draft issued revised dangerous waste permit by the State of Washington Department of Ecology, in January 2007. Since then ORP and BNI has met with Ecology a number of times to resolve some of the issues identified in the response.

DOE has completed the TPA milestone M62-03, Submit DOE petition for RCRA delisting of vitrified HLW on December 31, 2006.

Facility	Milestone	Scheduled	Completed
HLW	M-62-03 – Submit DOE petition for RCRA delisting of vitrified HLW	12/31/06	12/31/06

## Low Activity Waste (LAW) Vitrification Facility

DOE is preparing to direct BNI to initiate Hot Commissioning of the Low Activity Waste Facility in FY12. Significant efforts will be required by BNI to get material in to support construction. CHG will provide the feed to the facility via a new pipeline and diversion pit. WDOE, DOE and BNI will need to work closely to establish a permitting environment to allow the earliest possible operation of the facility.

Piping and hanger installation is proceeding on the -21', 3' and 28' levels. Conduit installation is proceeding on the -21' and 3' levels. Ventilation ducting and insulation is being installed at the 3', 28' and 48' levels. A fan coil unit is being installed at the 28' level. Fireproofing repairs are underway at the 28' level. Millwrights are aligning the monorails in the #1 and #2 melter pour caves. Embed and rebar installation for the container export bay exterior walls is progressing. Structural steel is being painted on the 48' level. The melter #1 electrical buss is being installed.

The entire 0' to 28' level container export wall has been placed. Future placements will increase the height of the walls to 48'.

BOF Forces have installed the elevator pit north of the LAW facility in support of future Annex construction. HLW's annex foundation design was completed in time to support its placement concurrent with the placement of the 0' level slabs. LAW's annex design was deferred to support design of the main facility.

Installation of the melter #1 and #2 electrical bus is progressing. This is a large component that has required fabricator rework to allow its installation in the facility. Completing installation of the buss allows the ventilation, piping and cable trays to be installed in the center aisle of the -21' level. LAW Engineering has been work with the fabricator for several months to ensure that the second set of buss work is correct.

Construction forces are preparing to operate the Wet Process Cell crane to allow its use to support installation of piping and components in and above the cell. Energizing the crane could occur by the end of the month.

		Engineering		Construction	
Commodity	UOM	Total Quantity At Completion	Release Act to Date	Install Act to Date	Install Act %
Concrete	1000 CY	28.068	27.29	23.09	82.28%
Structural	1 TN	5997	5753	4705	78.46%

Steel					
Pipe	1000 LF	99.965	84.66	28.31	28.32%
HVAC	1000 LB	931.19	0	0	0.00%
Cable Tray	1000 LF	16.867	15.11	8.76	51.98%
Conduit	1000 LF	161.566	65.01	20.50	12.69%
Cable & Wire	1000 LF	840.087	270.46	0	0.00%
Terminations	1000 EA	51.276	15.82	0	0.00%

### Analytical Laboratory (LAB)

Erection of facility structural steel started on 4 Dec 2006. To date more than 192 tons of structural steel has been installed. The Lab is scheduled to be dried-in by the end of the year.

Sandblasting the south end of the hot cell roof is progressing prior to application of decontamination coatings. Large bore piping installation is continuing in the C5 cell. The leak detection boxes in the C5 cell have been set.

		Engineering		Construction	
Commodity	UOM	Total Quantity At Completion	Release Act to Date	Install Act to Date	Install Act %
Concrete	1000 CY	16.45	9.42	10.03	60.93%
Structural Steel	1 TN	887.00	728.00	192.00	21.65%
Pipe	1000 LF	46.20	28.22	5.12	11.09%
UG Pipe	1000 LF	112.16	111.61	103.66	92.43%
Cable Tray	1000 LF	4.39	2.92	1.57	35.65%
Conduit	1000 LF	52.87	40.68	25.22	47.71%
UG Conduit	1000 LF	187.32	175.76	158.05	84.38%
Cable & Wire	1000 LF	569.82	289.73	176.50	30.97%
Terminations	1000 EA	16.52	5.19	0.78	4.72%

### Balance of Facilities (BOF)

Installing of piping between the tank and building in the Fuel Oil facility is progressing.

Construction forces are continuing the installation of large bore pipes and hangers and preparing for the installation of exhaust fans in the Chiller Compressor Plant. Installation is progressing on the Water Treatment Plant Main Control Center, conduit for monitoring devices and tank lighting, and installation of piping to skids. Installing piping between the tank and building in the Fuel Oil facility. Construction forces are installing communication conduit in the Steam Plant Facility.

Pretreatment-HLW feed lines repairs are progressing. These pipes have out-of-tolerance slope requiring that the connection at the Pretreatment facility and piping installation welds be removed. The piping will be reinstalled to obtain the required 0.5% slope.

		Engineering		Construction	
Commodity	UOM	Total Quantity At Completion	Release Act to Date	Install Act to Date	Install Act %
Concrete	1000 CY	11.86	11.86	10.57	89.11%
Structural Steel	1 TN	1719.00	1719.00	99.00	5.76%
Pipe	1000 LF	35.35	26.01	8.43	23.84%
Cable Tray	1000 LF	2.77	2.77	0.00	0.00%
Conduit	1000 LF	50.95	6.98	0.96	1.89%
Cable & Wire	1000 LF	172.43	23.76	0.00	0.00%
Terminations	1000 EA	11.65	0.00	0.00	0.00%

**Balance of Facilities Construction Completion Status**

<b>Facility</b>	<b>Engineering % Complete</b>	<b>Construction % Complete</b>	<b>Scheduled Completion Date</b>	<b>Value \$k</b>
1.05 Balance of Facilities Common Scope	35%	15%	Jul-14	\$219,588
1.5A Site Work	87%	48%	Jul-14	\$95,616
1.5B Administration Building (convert from temp)	5%	0%	Jul-14	\$5,473
1.5C Cooling Tower Facility	99%	97%	Oct-06	\$6,800
1.5D Fire Water Pump House Facility	99%	96%	Oct-07	\$1,313
1.5E Fuel Oil Facility	99%	92%	Nov-06	\$1,196
1.5F Diesel Generators Facility	72%	0%	Nov-11	\$5,254
1.5G Glass Former Storage Facility	48%	8%	Sep-10	\$8,321
1.5H Guard House Facility	100%	100%	COMPLETE	\$7
1.5J Chiller Compressor Plant	92%	75%	Jun-08	\$22,174
1.5K Steam Plant Facility	100%	98%	Sep-08	\$8,516
1.5L Wet Chemical Storage Facility	50%	0%	Dec-13	\$4,498
1.5M Water Treatment Building	98%	65%	May-07	\$7,028
1.5N Non-Dangerous, Non-Radioactive Effluent Facility	75%	77%	Oct-07	\$1,507
1.5P Switchgear Building	94%	78%	Apr-11	\$5,993
1.5Q ITS Switchgear Building	64%	17%	Feb-12	\$4,998
1.5S Erected Tanks - Process/Potable	100%	100%	COMPLETE	\$5,216
1.5T Failed Melter Storage	14%	0%	Apr-10	\$1,608
1.5V BOF Switchgear Building	95%	79%	Apr-11	\$5,593
1.5Y Simulator Facility	46%	85%	Aug-10	\$14,940
1.5Z Anhydrous Ammonia	42%	0%	Sep-08	\$1,579

**Significant Planned Actions (next six months):**

**Milestone M-62-00, Complete Pretreatment Processing and Vitrification of Hanford High-Level (HLW) and Low-Activity (LAW) Tank Wastes.****I. Near-Term Deliverables:**

- **M-62-00, Complete Pretreatment Processing and Vitrification of Hanford High-Level (HLW) and Low-Activity (LAW) Tank Wastes.**  
Due: 12/31/2028  
Status: At Risk – DOE is currently evaluating WTP cost and schedule information.
- **M-62-00A, Complete WTP Pretreatment Processing and Vitrification of Hanford HLW and LAW Tank Wastes.**  
Due: 02/28/2018  
Status: At Risk
- **M-62-01M, Submit Semi-Annual Project Compliance Report.**  
Due: 07/31/2006  
Status: Completed
- **M-62-01N, Submit Semi-Annual Project Compliance Report.**  
Due: 01/31/2007  
Status: On Schedule
- **M-62-01O, Submit Semi-Annual Project Compliance Report.**  
Due: 07/31/2007  
Status: On Schedule
- **M-62-03, Submit DOE Petition for RCRA Delisting or Vitrified HLW.**  
Due: 12/31/2006  
Status: Completed.
- **M-62-07B, Complete Assembly of Low Activity Waste Vitrification Facility Melter #1 So That It Is Ready for Transport and Installation in the LAW Vitrification Building (BNI Baseline Schedule Activity 4DL321A200 as Part of DOE Contract No. DEAC27-01RV14136), and Complete Schedule Activity ID 4DH46102A2 – Move #1 Melter into the High Level Waste Vitrification Facility.**  
Due: 12/31/2007  
Status: Unrecoverable



- **M-62-08, Submittal of Hanford Tank Waste Supplement Treatment Technologies Report, Draft Hanford Tank Waste Treatment Baseline and Draft Negotiations Agreement in Principle.**

Due: 06/30/2006

Status: Missed – Insufficient information to compare technologies due to delays in constructing the Demonstration Bulk Vitrification System (DBVS) and lack of WTP cost and schedule information.

**1. Significant Accomplishments:**

- Continued preparation for FY2007 integrated dryer/38D full-scale melt test.
- Continued effort to address Molten Ionic Salt issue from full-scale melt 38C. Completed “baseline” engineering-scale melt.
- Completed development of the draft Project Improvement Plan to address technical issues and areas of concern identified by the Expert Review Panel. Issued for review.

**2. Significant Planned Actions in the Next Six Months:**

- Complete ORP review of the PDSA.
- Complete review and issue Project Improvement Plan addressing technical issues and areas of concern identified by the Expert Review Panel.
- Complete preparation for the integrated dryer/38D full-scale melt test (IDMT), conduct full-scale dryer testing, conduct IDMT.
- Complete External Independent Review in support of Critical Decision (CD-2).

**3. Issues:**

- The DBVS facility design and/or cost and schedule baselines will require modification to incorporate resolution of issues identified by the Expert Review Panel.
- Resolution of the MIS issue must be demonstrated during the integrated dryer/38D full-scale melt test.

- **M-62-09, Start Cold Commissioning – Waste Treatment Plant.**

Due: 02/28/2009

Status: Unrecoverable

- **M-62-10, Complete Hot Commissioning – Waste Treatment Plant.**

Due: 01/31/2011

Status: Unrecoverable

- **M-62-11, Submit a Final Hanford Tank Waste Treatment Baseline.**

Due: 06/30/2007

Status: Unrecoverable. Delays in M-62-08 will cause delays in this milestone.

**II. Significant Accomplishments:**

- None

**III. Significant Planned Actions in the Next Six Months:**

- None

**IV. Issues:**

- ORP formally informed Ecology that the Milestone M-62-08 due date was not achievable. The Milestone requires submittal of a Supplemental Treatment Technologies Report that provides a recommendation describing the technical and financial alternatives for selection of a technology, or a second WTP ILAW plant, which in combination with the WTP could be implemented to treat all of the Hanford tank waste. In a letter dated December 26, 2007, Ecology requested ORP provide the current state of information on the supplemental low-activity waste treatment options. ORP and CH2M HILL met with Ecology on January 11, 2007, to agree on information to be provided to satisfy the Ecology request. ORP and Ecology have agreed to extend the submittal date for this information from January 30 to February 13.



**Agenda**  
**February 15, 2007**

**Office of River Protection**  
**Quarterly Milestone Review Meeting**  
Ecology Conference Room 3A, 3100 Port of Benton Blvd., Richland

**Chairperson: Jane Hedges**

9:00 a.m. – 11:30 a.m.

Page	Topic	Leads	Time
3 13	<ul style="list-style-type: none"> <li>TPA Milestone Statistics</li> <li>FY 2006 ORP TPA Cost &amp; Schedule Performance (CHG)</li> </ul>	Woody Russell / Diane Clark/ Suzanne Dahl / Jeff Lyon	9:00
54	M-45, -50, -60 Single-Shell Tank Corrective Action	Bob Lober / Joe Caggiano	9:10
56	M-45-00, Complete Closure of All Single-Shell Tank Farms	Roger Quintero / Jeff Lyon	9:30
65	Interim Stabilization Consent Decree	John Long / Nancy Uziemblo	10:00
66	M-23-00, Tank Integrity and Monitoring	John Long / Jeff Lyon	10:10
69	In Tank Characterization and Summary	John Long / Michael Barnes	10:20
70	M-47-00, Tank Waste Treatment, Storage and Disposal Facilities	Diane Clark / Les Fort	10:30
72	M-48-00, DST Integrity Assessment Program	Cathy Louie / Vic Callahan / Les Fort	10:40
74	M-90-00, Complete Acquisition of Facilities for Interim Storage of IHLW and Storage/ Disposal of ILAW and M-20, Part B Permits	Cathy Louie / Bud Derrick	10:50
74	BNI Cost & Schedule Performance and M-62-00, Complete Pretreatment Processing and Vitrification of Tank Wastes	Bruce Nicoll / Pete Furlong / Wahed Abdul / Suzanne Dahl	11:00
84	M-62-08 Bulk Vitrification/Supplemental Technologies	Jim Thompson/Suzanne Dahl	11:20

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February 15, 2007

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*Tri-Party Agreement Major Milestone Management Review*  
*February 15, 2007*

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## February 15, 2007 - Ecology

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